Ministry of Petroleum
& Natural Gas
Government of India

सत्यमेव जयते

G20 भारत 2023 INDIA

Azadi Ka Amrit Mahotsav



TRANSFORMING ENERGY LANDSCAPE

2014-2023



9 YEARS ACHIEVEMENT OF MINISTRY OF PETROLEUM & NATURAL GAS





Ministry of Petroleum
& Natural Gas

Government of India

Unprecedented possibilities are emerging for energy sector in India that is moving with a resolution of a Viksit Bharat.

Sh. Narendra Modi
Hon'ble Prime Minister



FROM THE MINISTER'S DESK

Hardeep Singh Puri
Minister of Petroleum & Natural Gas ; Housing and Urban Affairs



I am glad that the Ministry of Petroleum and Natural Gas is releasing this compendium to show case the transformative journey of the energy sector amidst the challenging landscape over the past 9 years.

Hon'ble Prime Minister had made it clear from the very beginning that Energy is the key factor that shall be driving India's development ambitions. Guided with this foresight, we are on track to ensure a total reform in this sector to ensure energy independence by 2047.

The last few years had presented a lot of challenges and obstacles before us. India was able to navigate through this formidable energy crisis due to its four-pronged energy security strategy that includes (i) Diversification of energy supplies, (ii) Increasing India's Exploration & Production footprint, (iii) Alternate energy sources and meeting energy transition through Gas-based economy, (iv) Green Hydrogen and EVs.

We have also expanded our strategic alliance, ensuring a more diversified and secure energy portfolio for the nation (Our import basket comprises of 39 countries). With long-term contracts and participative roles in international energy organizations, acquiring assets abroad we have placed India's interests at the centre of global energy discussions.

We have always tried to keep 'India first' in every policy formulation and action. This is clearly evident in government's aim to expeditiously take welfare schemes to all the citizens with a “people-centric” approach.

The Pradhan Mantri Ujjwala Yojana launched in 2016 had brought about a revolution not only in India's energy sector but also had sent a deep social message as the accessibility of LPG cylinders ensured liberating millions of our mothers and sisters from the shackles of smoke-emitting cooking methods.

Our consumer-centric approach has been at the forefront of our efforts. The Prime Minister's gift of Rs. 200 price reduction in domestic LPG cylinders to sisters on the festival of Raksha Bandhan epitomises this Government's care for the common Indians. The no. of LPG customers has increased from 14.52 crore in 2014 to more than 31 crore in 2023. The LPG coverage which was around 56% in 2014 has reached almost saturation level today.

We have envisioned a gas-based economy that will bolster our industrial sector but also serves as an eco-

friendly alternative for the nation. The strategic laying down of gas pipelines across the length and breadth of the country is a monumental step in this direction, securing our energy future and stimulating economic activity along these new arteries of progress. The last 9 years has seen the Natural Gas pipeline network grow from approx. 15,000 KM in 2014 to more than 23,000 KM in 2023 as we try to complete the one nation-one gas grid vision.

Significant progress has been made in the CGD sector of India as we see PNG (Domestic) connections number increase from 22.28 lakh in 2014 to around 1.14 crore in 2023. The no. of CGD covered districts has increased more than Nine times from 66 in 2014 to 648 in 2023.

The exploration section too has witnessed significant progress as we work tirelessly to harness the untapped natural reserves to meet India's energy demands and reduce import dependency. Seismic surveys, reduction of No-Go areas, deep-water drilling, hosting of NDR data on cloud platform and collaborative ventures have not only expanded our energy horizons but also placed India on the global map.

Our efforts in the clean energy sector especially the Bio-Fuels section have been noteworthy. We have raised the ethanol blending percentage to almost 12% as compared to 1.53% in 2014. There are over 4200 E20 dispensing stations as we target to take the ethanol blending to 20% by 2025. We have made progress in CBG sector as well and around 50 CBG plants are producing CBG today. We have also run few domestic flights on Sustainable Aviation Fuel.

The transition to BS-VI fuels and the introduction of electric vehicle charging stations (currently over 9000) further underscore our dedication to reducing our carbon footprint.

The launch of the Global Biofuels Alliance at the recent G20 Summit in New Delhi reaffirms our commitment to international cooperation in sustainable energy.

Ethanol blending has resulted in major benefits such as:

(i) Cumulative foreign exchange impact due to Ethanol Blended Petrol (EBP) programme in the last 9 years (2014-2023) has been over Rs. 73,000 crores.

(ii) Transitioning farmers from 'annadata' to 'urjadata' and boosting farmers income with the payment of over Rs. 76,000 crores in last 9 years.

(iii) Helped in lowering CO2 emissions by more than 400 lakh MT in the last 9 years and crude oil substitution of over 132 lakh MT.

(iv) The Oil Marketing Companies (OMCs) have paid the distillers more than Rs. 1,20,000 crores during last 9 years.

Apart from sector specific milestones, we have focussed on healthcare, education, and community development and undertaken high-impact projects. These initiatives aim to uplift marginalized communities, provide quality healthcare and education, and forge a stronger, more resilient social fabric for our great nation.

As we continue this path of relentless progress, innovation, and service to the nation, we reaffirm our commitment to affordability, accessibility, and sustainability in the energy sector. Together, let us fuel a brighter, cleaner, and more prosperous future for our Great Nation.

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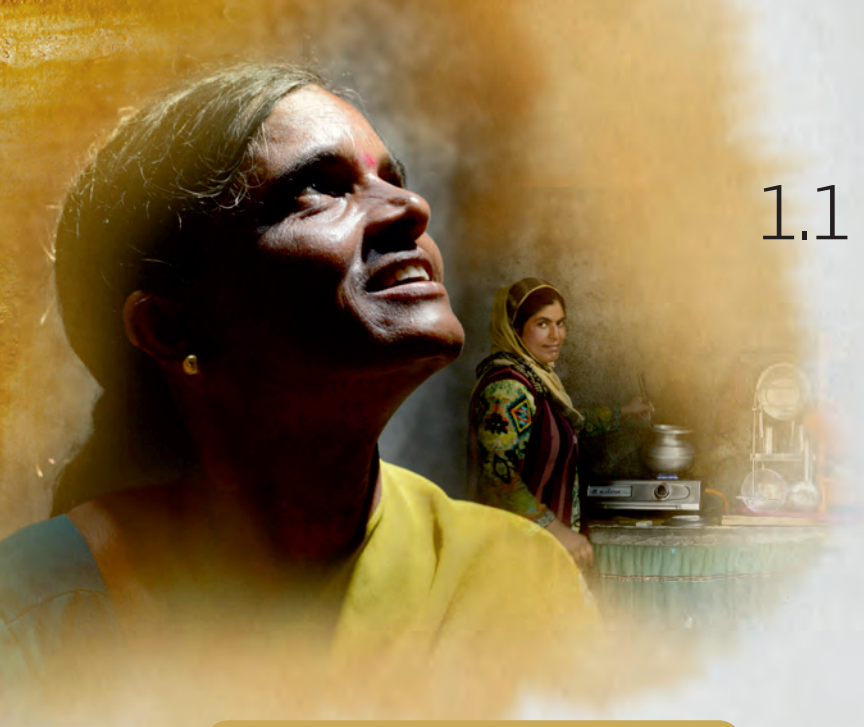
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01

MARKETING



MARKETING



1.1

Reduction in the price of cooking gas.
Effective from 30.8.2023,
the price of a 14.2 kg LPG cylinder is

reduced by Rs. 200

in all markets across the country.
This reduction is in addition to the
enhanced targeted subsidy of
₹300 per cylinder to
PMUY households.



More than
31 Crore
customers to benefit

₹603
per cylinder for PMUY beneficiaries after DBT subsidy of ₹300 per cylinder

75 lakh
more Ujjwala connections approved (in addition to 9.6 crores existing connections)



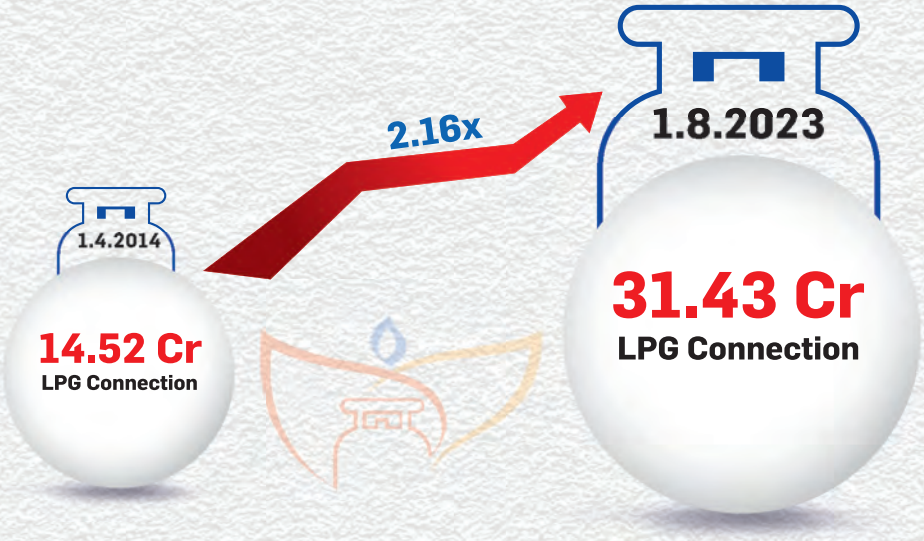
MARKETING

LPG connections

Total LPG Coverage

1.4.2014 = **55.9%**

1.8.2023 = **Near Saturation**



The target of **9.6 Crore** connections under PM Ujjwala Yojana achieved



Moving towards Smokeless Households

MARKETING

1.3

Pradhan Mantri Ujjwala Yojana (PMUY)

9 YEARS ACHIEVEMENT OF MoPNG

Launched on 1st May 2016 in Ballia, Uttar Pradesh

Target	**8 Cr***
Budget	**₹12,800 Cr**

**Target achieved in Sep' 2019*

Beneficiary categories of Poor Families in addition to identification from SECC# list

- All SC Households
- All ST Households
- Most Backward Classes (MBC)
- Tea & Ex-Tea Garden Tribes
- Other deprived households, based on 14 point declaration
- People Residing in Islands/ River Islands
- Antyodaya Anna Yojana (AAY) Beneficiary
- Forest Dwellers
- Pradhan Mantri Awas Yojana (PMAY) (Gramin) Beneficiary

Pradhan Mantri UJJWALA Yojana
Swachh Indhan, Behtar Jeevan

#Socio-Economic Caste Census



Hon'ble Prime Minister interacted with 105 Ujjwala beneficiaries from 27 states in New Delhi in February 2018.

MARKETING

1.4

Ujjwala 2.0

9 YEARS ACHIEVEMENT OF MoPNG

- PMUY phase-2 (Ujjwala 2.0) launched in August 2021.
- 1 crore additional PMUY connections achieved in January 2022.
- 60 lakh additional PMUY connections achieved in December 2022.
- As of September 2023, there are 9.6 Cr PMUY beneficiaries.

Additional facilities provided to beneficiaries under Ujjwala 2.0



MARKETING

1.5 PAHAL-Direct Benefit Transfer of LPG (DBTL)

9 YEARS ACHIEVEMENT OF MoPNG



Subsidy

Launched in 54 districts on 15.11.2014 and PAN India on 01.01.2015.

Since inception, more than Rs. 1.5 lakh Cr subsidy directly transferred into the bank accounts of 29.06 Cr consumers.

Estimated savings of over Rs 75,000 Cr since inception.

Bank Account

Guinness world record for the largest direct benefits transfer scheme.

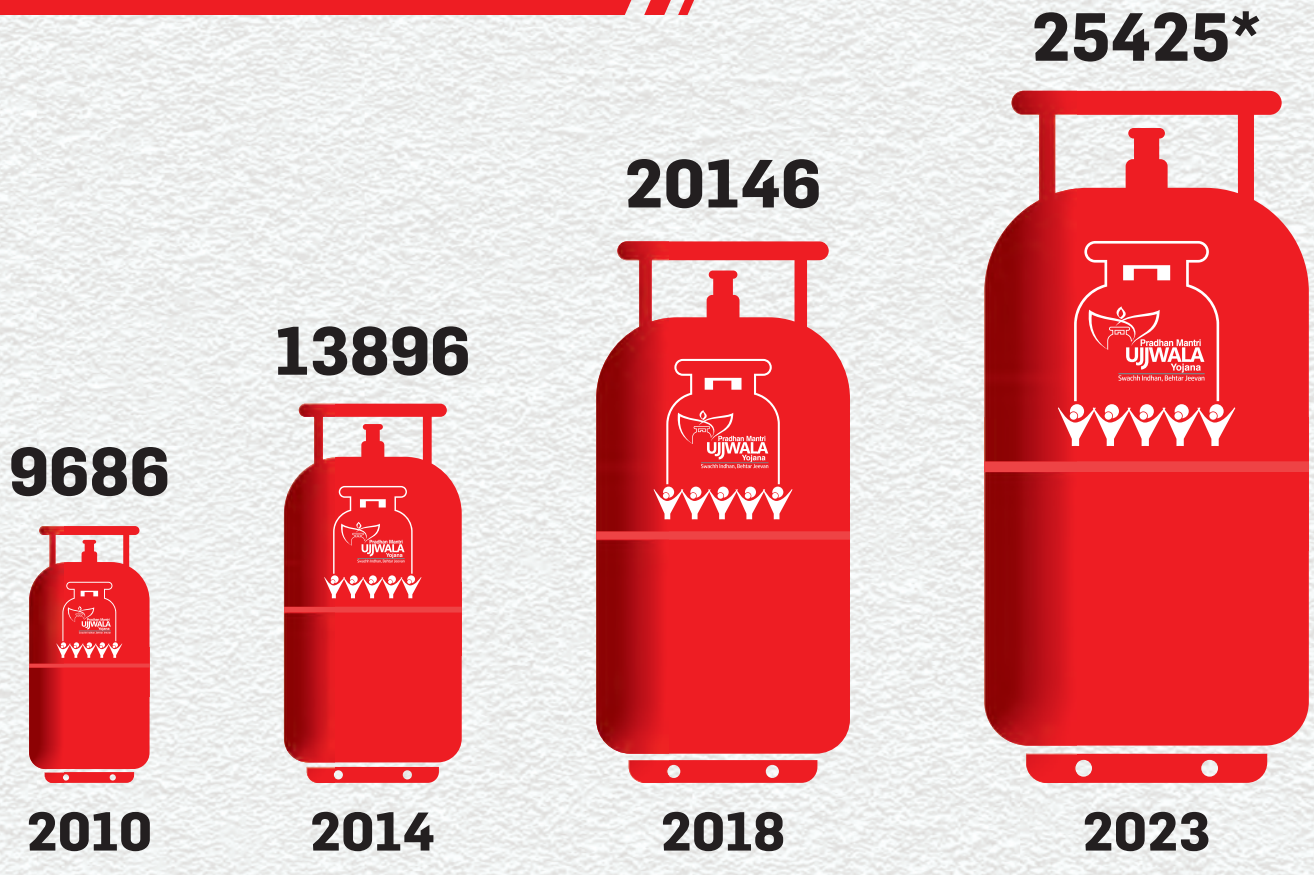


MARKETING

** Including additional cash compensation paid to PMUY consumers w.e.f 22.05.2022*

LPG Distributors

Enhancing Access & Ensuring Availability



Whole process of selection of new LPG Distributorship is now online through www.lpgvitarakchayan.in

*Figure as on 01.10.2023

MARKETING

GiveitUp Campaign

#GiveItUp

Feel *the* Joy *of* Giving

Let's give up LPG subsidy

Help light the flame in a poor man's kitchen

Over 1.13 Crore

citizens gave up their LPG subsidy

March 2015

Hon'ble Prime Minister Shri Narendra Modi appealed to LPG consumers to voluntarily surrender their subsidy.

Citizens of India have set high standards of voluntarism and participative democracy by giving up their LPG subsidy under the **GiveItUp** campaign.

Over 1.13 Cr consumers have given up their LPG subsidy which has helped in ensuring access to LPG connections by the under-privileged.

1.8 Citizen Centric Initiatives to promote 'Ease of Living'

9 YEARS ACHIEVEMENT OF MoPNG

LPG Refill portability

A customer not satisfied with services of her/his parent distributor can choose any distributor of the same company serving in her/his locality/ area for each refill booking & delivery.

Portability of LPG connection

A customer not satisfied with services of her/his existing distributor can shift to a new distributor using OMC website or OMC mobile Application.



Hassle free (across the counter) LPG connection

Hassle free Non-subsidized domestic LPG connection is now provided across the counter after a mere submission of Aadhaar and self declaration of address.

Secondary LPG connections

Release of secondary LPG connections to persons moved out of their native place for work, education etc.

Facility of online booking of LPG connection and payment for refill

Customers can apply for a connection and book refill by any of multiple option viz. OMC portal, UMANG, Whatsapp booking, missed call, IVRS for booking & wallets, Credit Cards, Debit Cards, net banking, UPI etc for payments.

Digital payments in LPG have increased to 50% in September 2023, accelerating Government of India's Digital India initiative.

MARKETING

Major Shift TO BS-VI

With BS-VI fuels, sulpher emissions have reduced by 80% vis-a-vis BS-IV levels.

1st April, 2017

BS-IV norms implemented in the entire country

1st April, 2018

BS-VI norms implemented in NCT of Delhi

1st April, 2020

Launch of BS-VI in remaining parts of India



MARKETING

1.10

Kerosene Free States

9 YEARS ACHIEVEMENT OF MoPNG



States/UTs who have become Kerosene Free voluntarily

1. Andaman & Nicobar Islands
2. Andhra Pradesh
3. Chandigarh
4. Dadar and Nagar Haveli and Daman & Diu
5. Delhi
6. Goa
7. Gujarat
8. Haryana
9. Puducherry
10. Punjab
11. Rajasthan
12. Uttar Pradesh

MARKETING

1.11 Digital Payments Facilities at Retail Outlets

9 YEARS ACHIEVEMENT OF MoPNG

No. of ROs: 79027

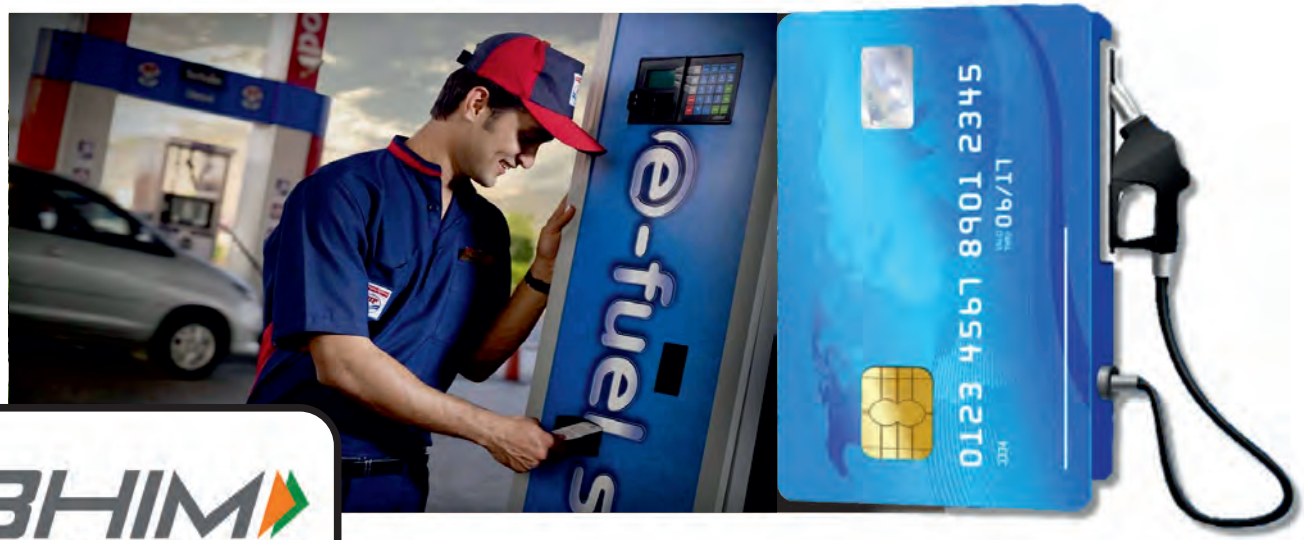
100% ROs are Digitally Enabled

78,100 ROs are enabled with **BHIM UPI**

4,83,799 POS Terminals are available at ROs

1,03,992 e-Wallet facilities are also at ROs

Digital Payments Facilities @ROs



BHIM BHARAT INTERFACE FOR MONEY

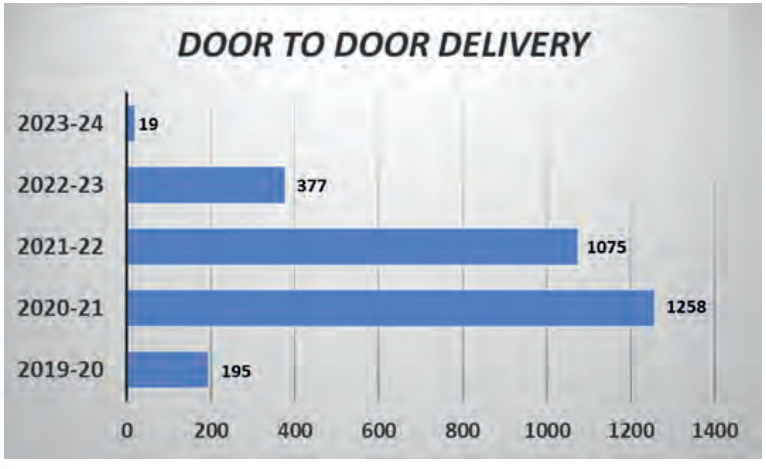
As on 01.08.2023

1.12 Door to Door Delivery (DDD)

2924

Bowsers in operation





As of 01.08.2023

- The objective is to deliver HSD to customers at their door steps primarily to industries/ organizations/ customers largely engaged in the areas of mining, infrastructure, telecommunication, port equipment etc.

MINING | INFRASTRUCTURE | TELECOMMUNICATION | PORT EQUIPMENT

- The DDD space has been opened up for reselling by any person authorized by OMCs.

1.13 Electric Vehicle Charging Stations

9166

Electric Vehicle Charging Station



22000 ***by 2024***



As of 01.08.2023

- OMCs including private sector are contributing to the development of Electric Vehicle Charging infrastructure to enable faster EV adoption.

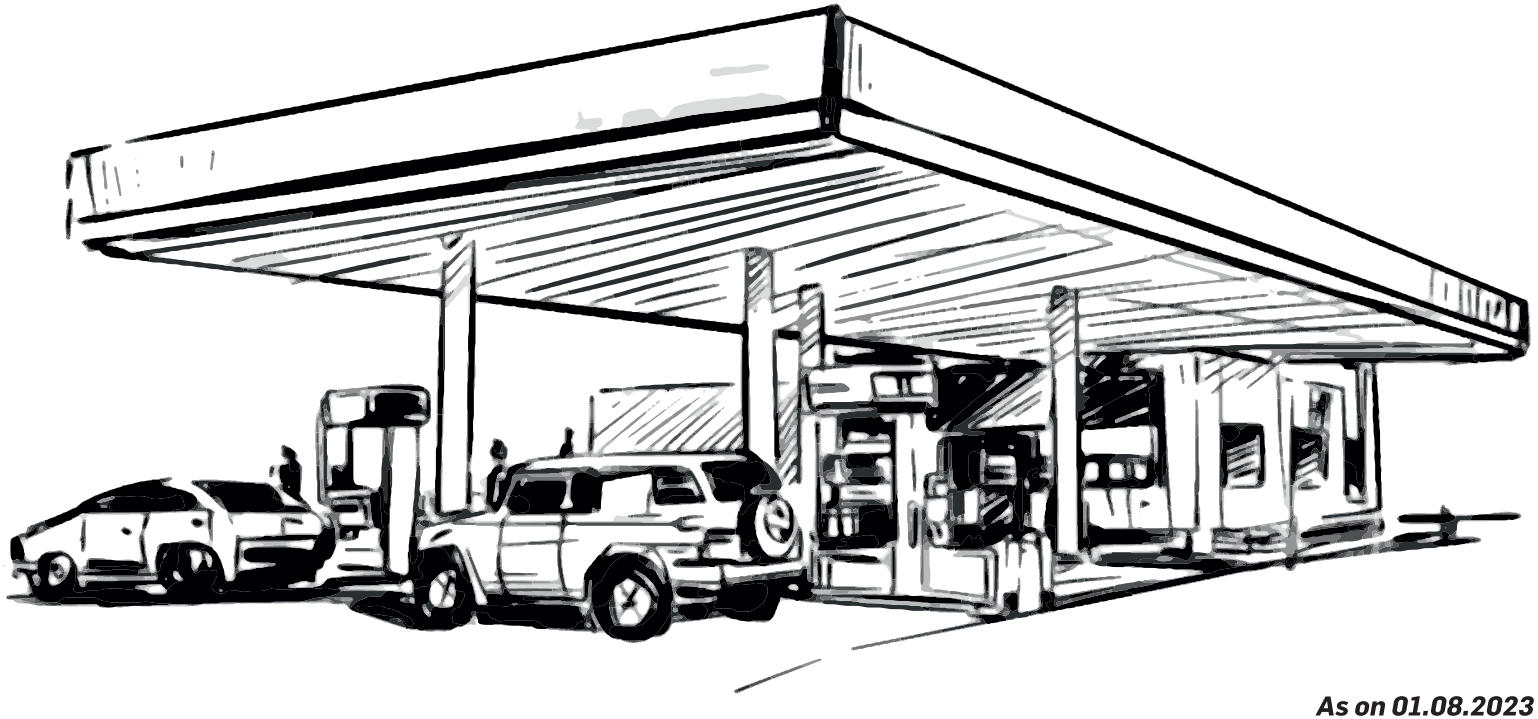
1.14

New Entities Authorised to Market Motor Spirit (MS)/ High Speed Diesel (HSD)

9 YEARS ACHIEVEMENT OF MoPNG

7 New Entities

are authorised to market bulk/ retailsale of MS/HSD under resolution dated 8th November, 2019



As on 01.08.2023

MARKETING

1.15

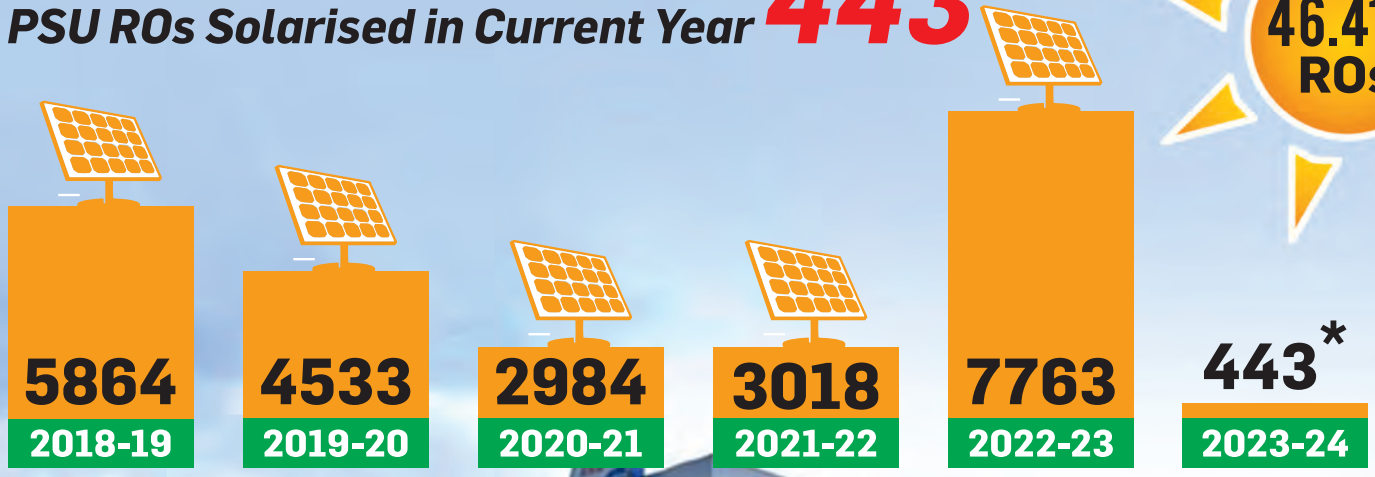
Retail Outlet Solarisation

9 YEARS ACHIEVEMENT OF MoPNG

Total PSU ROs Solarised 36673

PSU ROs Solarised in Current Year 443

46.41% ROs



** Figure as on 01.08.2023*



MARKETING

Swachh Bharat Mission

स्वच्छ भारत
एक कदम स्वच्छता की ओर

78,785
Petrol pumps with toilet facilities

SWACHH BHARAT MISSION

11,380
Retail Outlets have access to Divyangjan.

61,666
RO with separate toilet facilities for men & women

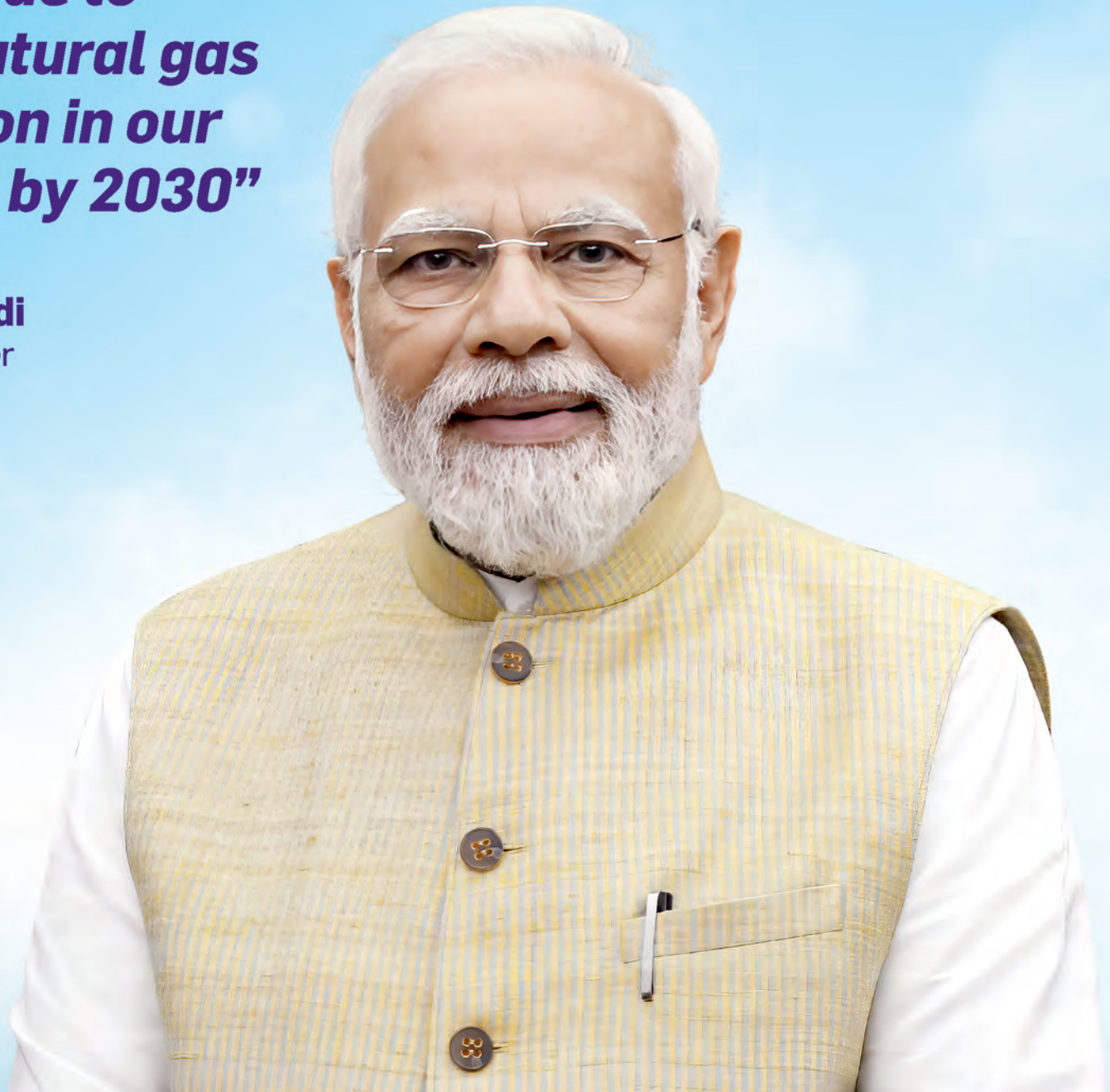






"We are working on mission mode to increase natural gas consumption in our energy mix by 2030"

Sh. Narendra Modi
Hon'ble Prime Minister



02

NATURAL GAS



2.1

City Gas Distribution

9 YEARS ACHIEVEMENT OF MoPNG

1.14 Cr PNG Connections

5899 CNG Stations

>50 Lakh CNG Vehicles

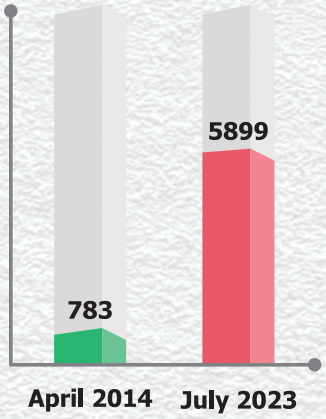
34.00 MMSCMD gas consumed in CGD sector

55,935 industrial & commercial customers

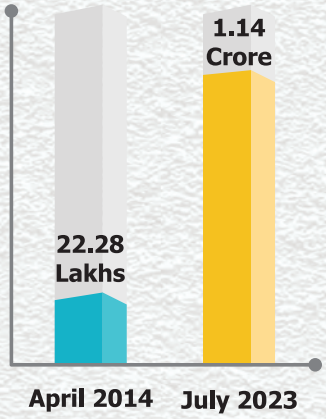
>17 Lakhs Highest ever PNG connections in a single year in 2022-23



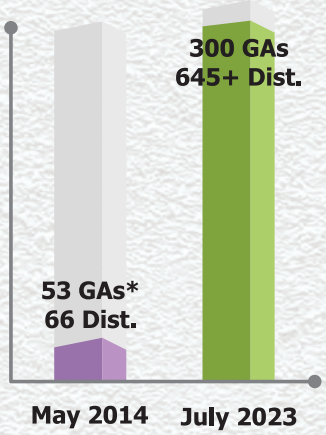
CNG Stations



PNG Connections



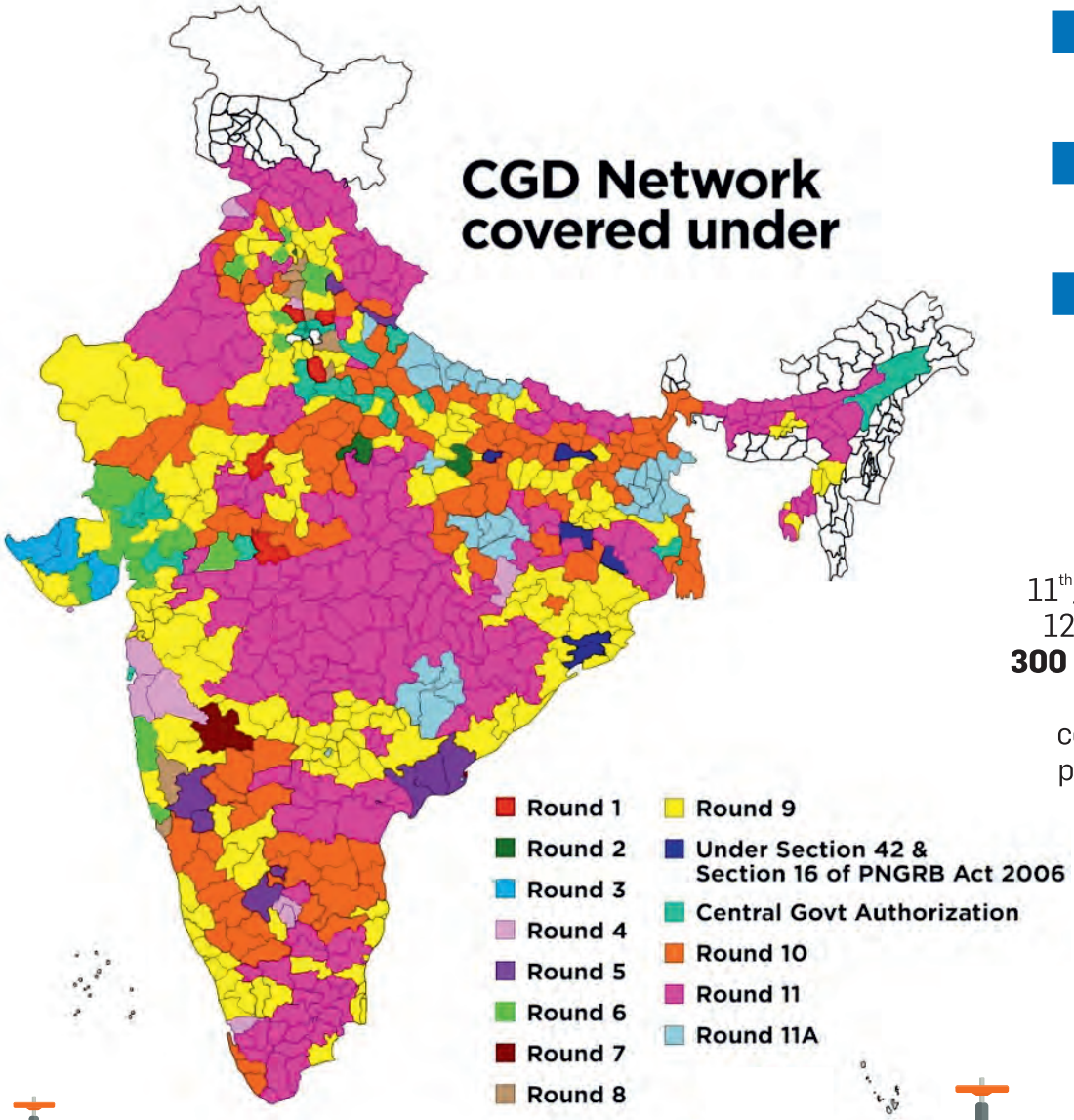
CGD Reach



2.1

City Gas Distribution

9 YEARS ACHIEVEMENT OF MoPNG



May 2014

37 GAs 66 Districts

May 2018

94 GAs 130 Districts

Post 11th Bid 2022

300 GAs 645+ Districts

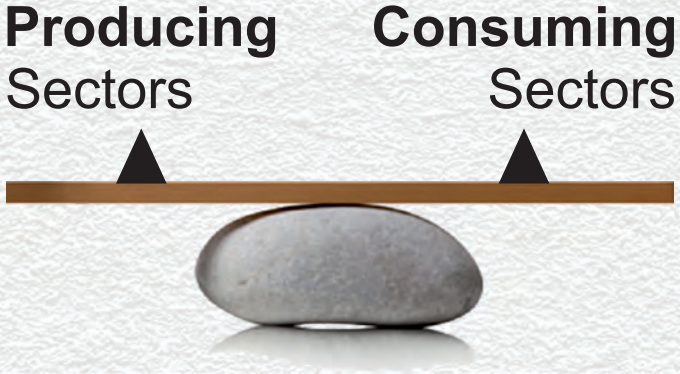
Expansion of CGD Networks

11th/11A biding round completed, 12th biding rouund is going on. **300 GAs** covering **645+ district** in **28 States/UTs** which cover around **98%** of India's population and **88%** of area.

NATURAL GAS

Gas Pricing Reforms

- Introduced in October 2014



Balancing Requirements

Marketing and Pricing freedom for gas produced from

1. High Pressure High Temperature (HPHT) reservoirs
2. Deepwater, ultra deepwater and difficult areas
3. Coal Bed Methane



2.3

Revised Guidelines for Natural Gas Pricing in 2023

9 YEARS ACHIEVEMENT OF MoPNG

Revised guidelines issued in April 2023

Applicability: Gas produced from nomination fields of ONGC/OIL, New Exploration Licensing Policy (NELP) blocks and pre-NELP blocks, where Production Sharing Contract (PSC) provides for Government's approval of prices.

Gas produced from new wells or well interventions in the nomination fields of ONGC & OIL, would be allowed a premium of 20% over the APM price.

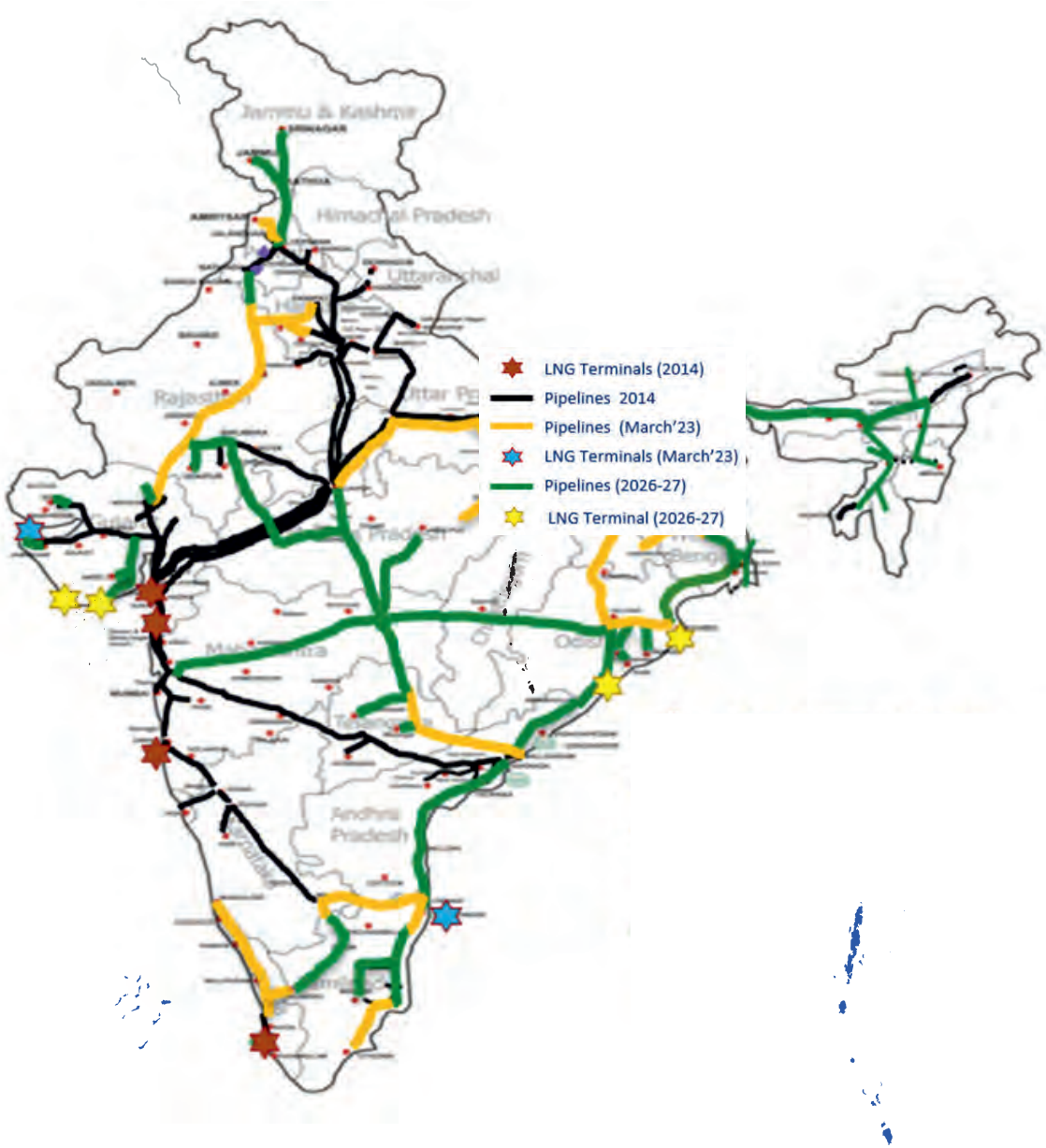
Price of Natural Gas:

- 10% of the monthly average of Indian Crude Basket (notified on monthly basis)
- For gas produced by ONGC & OIL from their nomination blocks, the Administered Price Mechanism (APM) price shall be subject to a floor and a ceiling.

Impact: The reforms have led to significant decrease in prices of Piped Natural Gas (PNG) for households and Compressed Natural Gas (CNG) for transport.



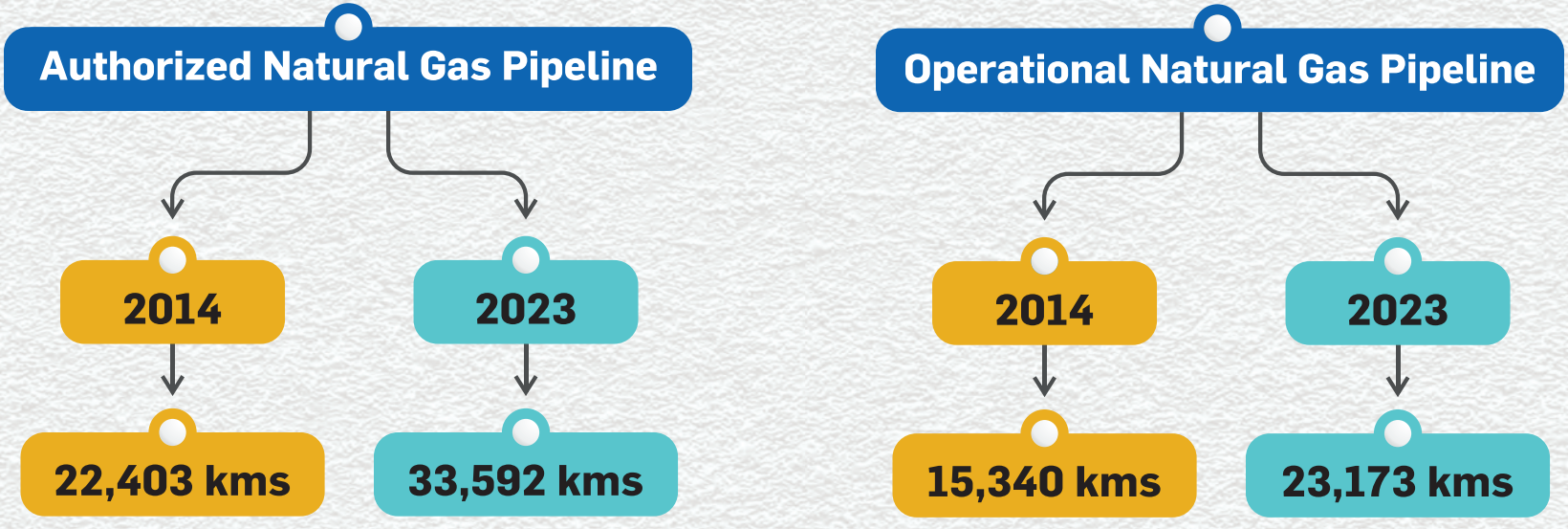
Gas Pipeline Network



2.4

Gas Pipeline Network

9 YEARS ACHIEVEMENT OF MoPNG



Since 2014, India has increased the authorized length of its gas pipeline network from **22,403 KM** in **2014** to **33,592 KM in March 2023** for the completion of One Nation One Grid vision.

2.5

LNG terminals

9 YEARS ACHIEVEMENT OF MoPNG

LNG Terminal Capacity

Number of LNG terminals

2014	2023
4	7

Capacity of LNG terminal

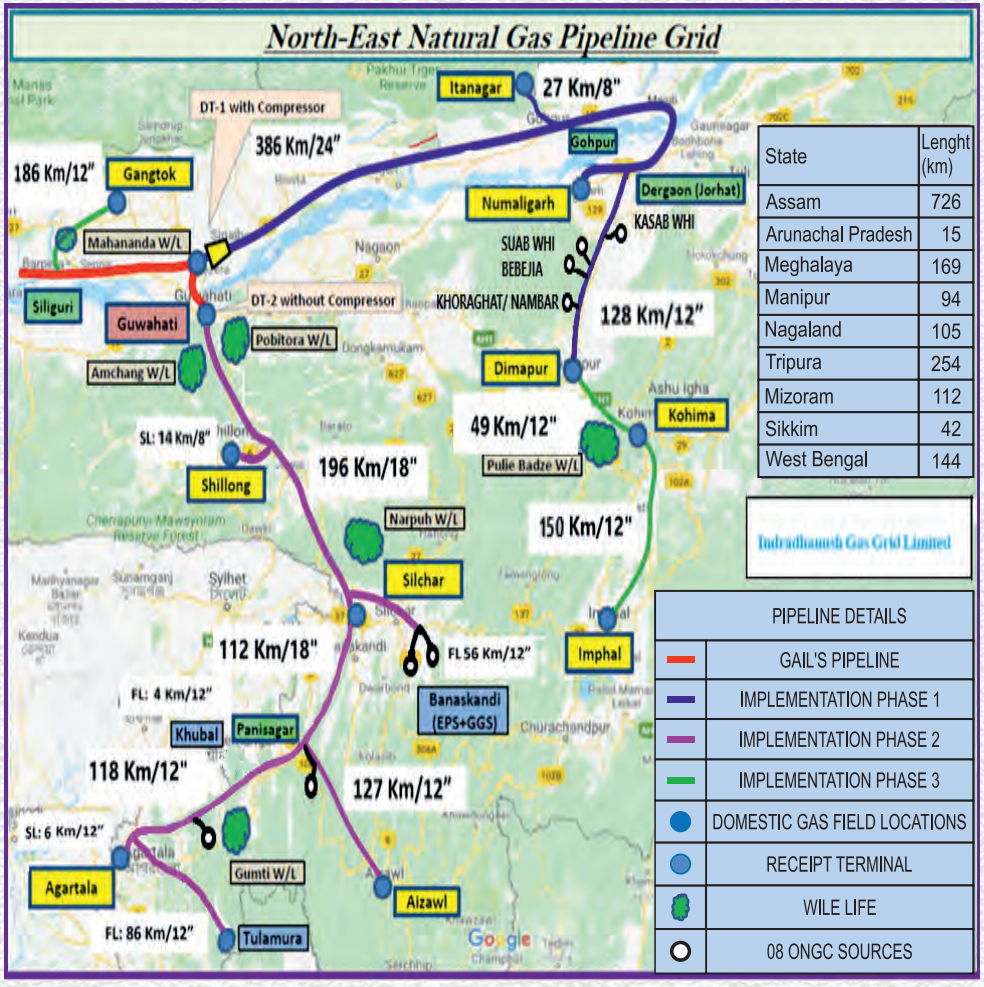
2014	2023
22 MMTPA (~ 79.2 MMSCMD)	47.7 MMTPA (~ 171.7 MMSCMD)



NATURAL GAS

2.6 Gas Pipeline network in India's North East – North East Gas Grid

9 YEARS ACHIEVEMENT OF MoPNG



State	Lenght (km)
Assam	726
Arunachal Pradesh	15
Meghalaya	169
Manipur	94
Nagaland	105
Tripura	254
Mizoram	112
Sikkim	42
West Bengal	144

Pipeline length
1656 km

Estimated Cost
₹9265 Cr

Approval Date of Project
17.11.2020

Scheduled date of Completion
31.03.2024

NATURAL GAS

2.7

Unified Tariff

9 YEARS ACHIEVEMENT OF MoPNG

Step towards one nation one grid and one tariff

Objective : to provide access of natural gas in the far-flung areas at the competitive and affordable rates

PNGRB has announced unified pipeline tariff comprising of 3 zones.

Zone	Distance	Tariff finalized per MMBTU
Zone 1	upto 300 Kms	Rs 39.45
Zone 2	more than 300 Kms upto 1200 Kms	Rs 74.97
Zone 3	beyond 1200 Kms	Rs 99.90

Impact : lower tariff for consumers in far flung areas and thereby resulting in lower delivered price of gas



NATURAL GAS

2.8

Indian Gas Exchange (IGX)

9 YEARS ACHIEVEMENT OF MoPNG

First nationwide online delivery-based gas trading platform.

- Launched in June 2020.
- IGX is a delivery-based trading platform for delivery of natural Gas.
- It completes the entire energy value chain from gas production from multiple sources and imports of LNG from different parts of globe to having a transparent price mechanism.





"This Nation, our Government, our Systems... they are all for the poor. Our aim is to empower the poor to fight poverty."

Sh. Narendra Modi, Hon'ble Prime Minister



03

EXPLORATION & PRODUCTION

3.1 HELP- A new investor friendly policy for Hydrocarbon Exploration

Success journey of HELP

Acreage Awarded under OALP (Round I-VII)
2,07,691sq. km.

Blocks Awarded
134 Blocks

Committed Investment
~3.13 USD billion

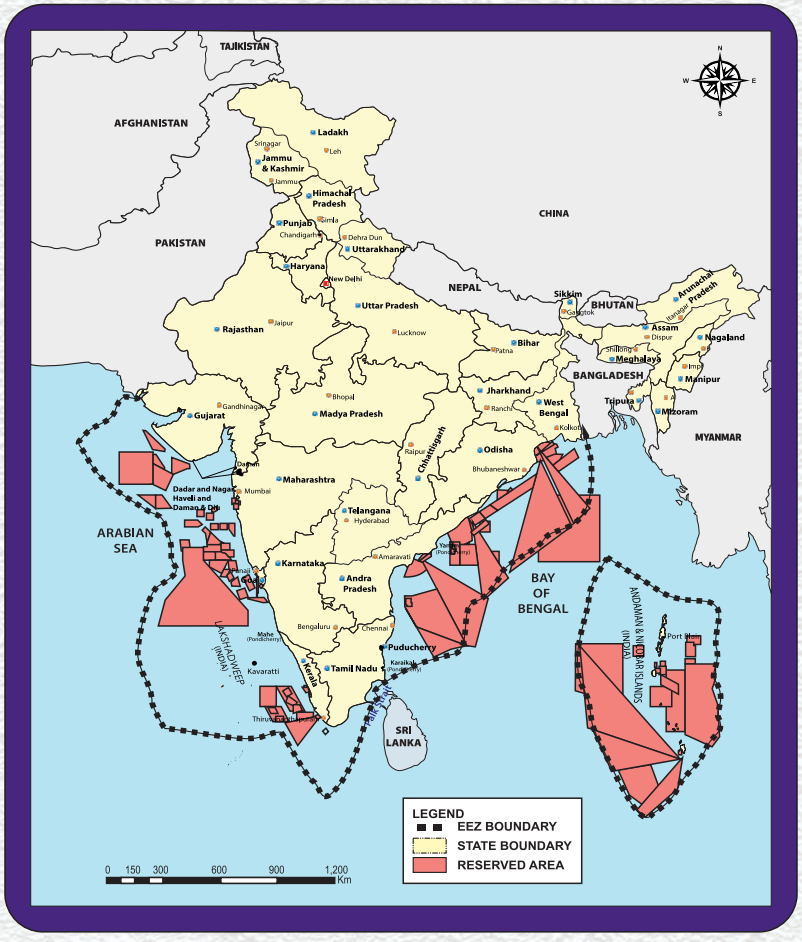
Committed Work Programme
•39,460 LKM 2D Seismic
•56,173 SKM 3D seismic •487 Expl. Wells

Salient Features of HELP

- No Revenue share bidding for Category-II & III Basins
- Freedom to carve out and select blocks for bidding
- Marketing and pricing freedom for sale of hydrocarbons
- Exploration permitted throughout contract period
- Low royalty rates by basin categories with additional concession for early production
- Single unified license for conventional & unconventional hydrocarbons
- 7-year royalty holiday for deep-water and ultra deep-water basins
- 'Single-window' clearance as One-Stop solution for Government

Overall ~99% of No-Go areas opened for E&P

EARLIER



Eased restrictions for E&P operations from about 1 Mn Sq Km of offshore areas in EEZ

NOW



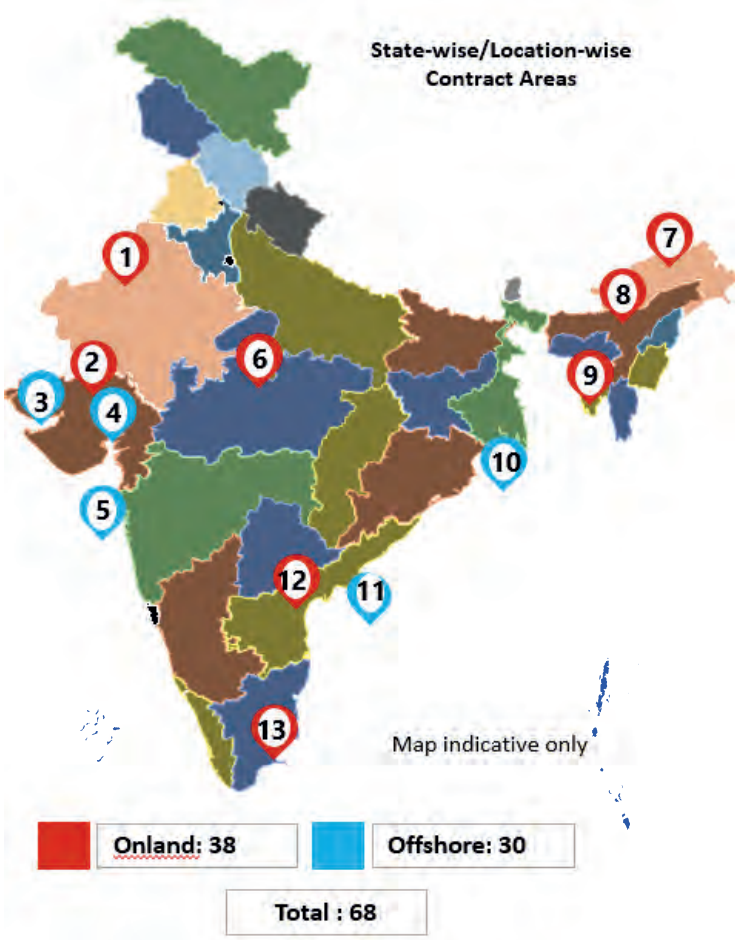
Commercial entities & Government agencies will concurrently operate in EEZ

3.3 Discovered Small Fields (DSF)

9 YEARS ACHIEVEMENT OF MoPNG

- Government introduced DSF Policy in Year 2015.
- 3 Rounds of DSF Bidding concluded till date and 85 Contracts signed.
- 54 Contracts are currently active.
- 5 fields on Production. 10 fields to come up on production by Mar'25.
- Cumulative production till July 2023 are 311 Mbbl Oil and 100 MMSCM Gas.
- DSF Rounds brought 15 New Players.

DSF Contracts Signed & not relinquished / terminated (including PML awaited)



1	Rajasthan	3
2	Gujarat	8
3	Kutch Offshore	2
4	Cambay Offshore	2
5	Mumbai Offshore	16
6	Madhya Pradesh	1
7	Arunachal Pradesh	1
8	Assam	11
9	Tripura	1
10	Mahanadi Offshore	1
11	KG Offshore	9
12	Andhra Pradesh	10
13	Tamil Nadu	3

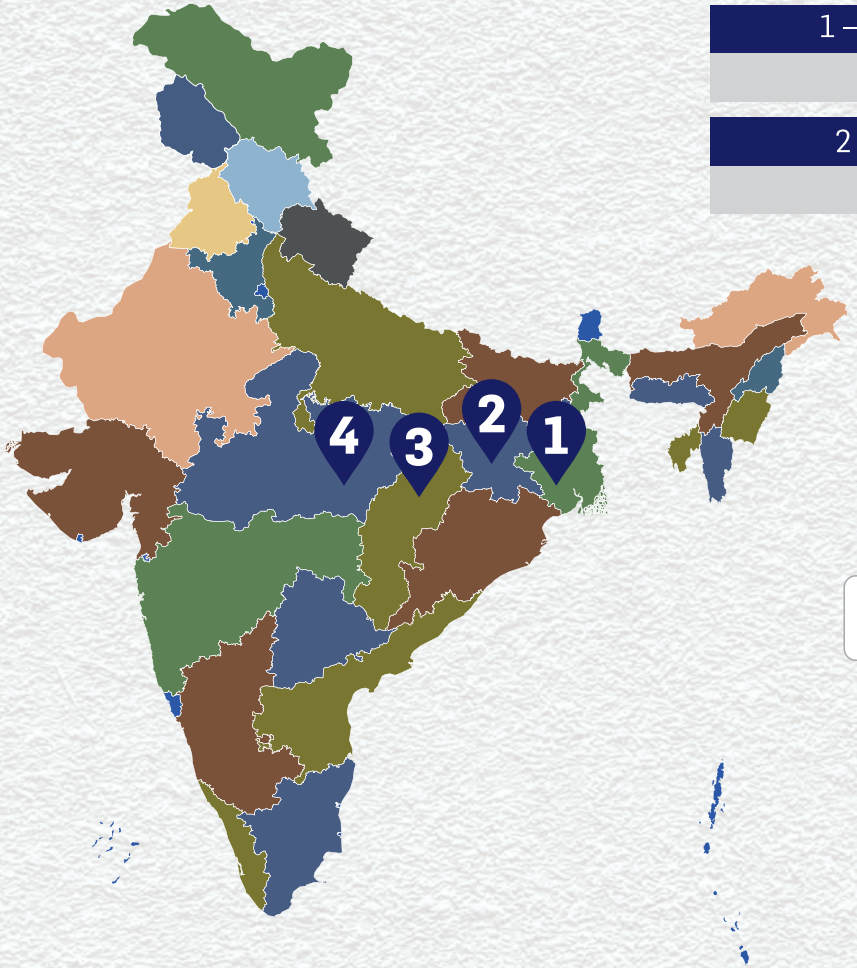
3.4

Coal Bed Methane

9 YEARS ACHIEVEMENT OF MoPNG

Blocks: 12* (6292 sq. km.)	Cumulative Production Achieved : ~5.95 BCM
Production rate: 1.8 MMSCMD	Production to enhance 1.3 times in next 3 years
Investment till date: USD 2.46 billion	16 Blocks on offer in 7 States (5800 sq. km.)

12 Coal Bed Methane Blocks



1 – West Bengal	3 - Chhattisgarh
•Blocks: 3	•Block: 1
2 - Jharkhand	**4 – Madhya Pradesh**
•Blocks: 4	•Blocks: 4

- 4 Exploration
- 3 Development
- 5 Production

Operators /JV Partners

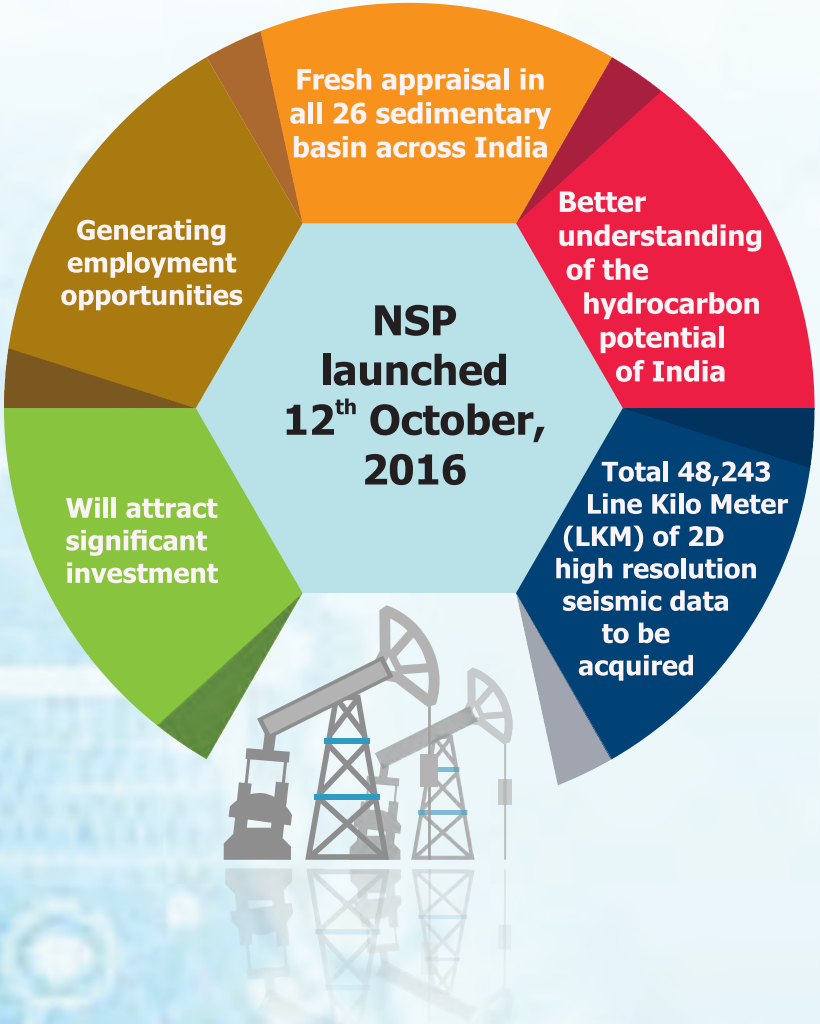
IndianOil, ONGC, Reliance Industries Limited, ESSAR, Great Eastern Energy Corporation Ltd

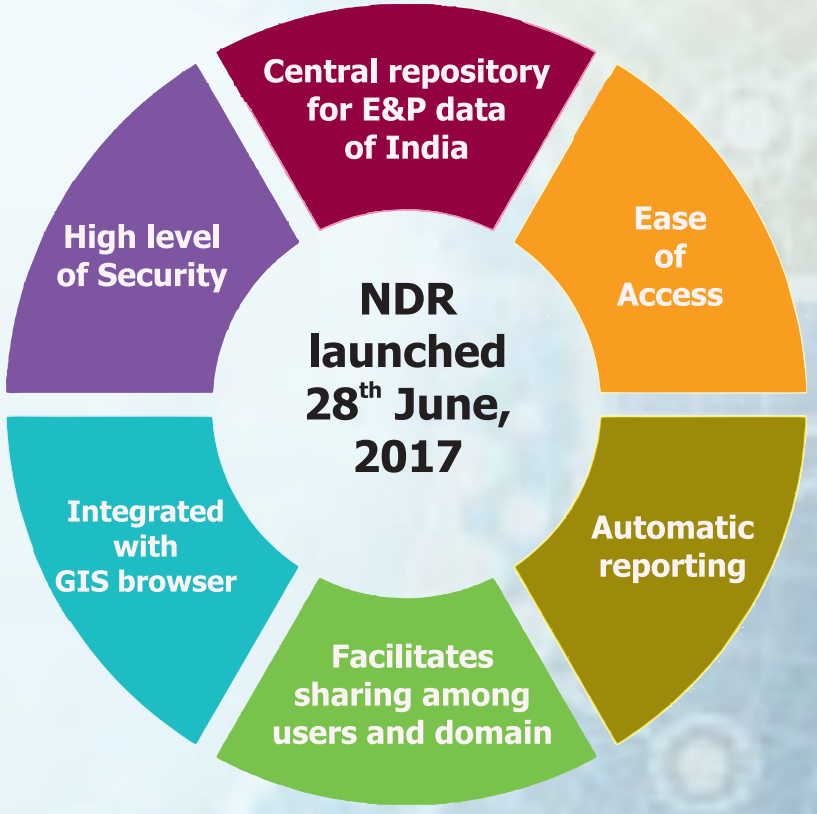
New Operators-SCBM-21

PRABHA Energy Private Limited, vedanta, InVenire Energy

*4 Blocks offered under SCBM-21 in 2022

3.5 National Data Repository (NDR) & National Seismic Program (NSP)





3.6 Ease of doing Business in E&P Sector

9 YEARS ACHIEVEMENT OF MoPNG

Faster Clearances



Urja Pragati Platform

Online system to expedite statutory clearances in coordination with State Government and other relevant Ministries

Empowered Coordination Committee

Apex body for Inter-Ministry coordination and timely clearances

Easier Compliances

Approvals on Self Certification

Reduction of no. of approvals and submission on self certification basis



Urja Suraksha Samanvay

GIS based monitoring and decision support system for swift information exchange

Online Clearances

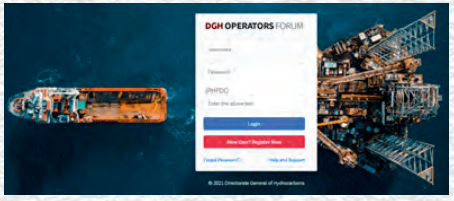
Online clearances for Expats and Offshore Vessels by MoHA/MoD

Greater Collaboration

UPSTREAM INDIA
Operators' Own Forum

Upstream India Portal

Collaboration amongst E&P stakeholders in terms of knowledge sharing, resource sharing and Government facilitation



EXPLORATION & PRODUCTION

"We have to ensure we meet our goal of building Aatmanirbhar Bharat when we celebrate 100 years of India's Independence."

Sh. Narendra Modi, Hon'ble Prime Minister



04

REFINERIES

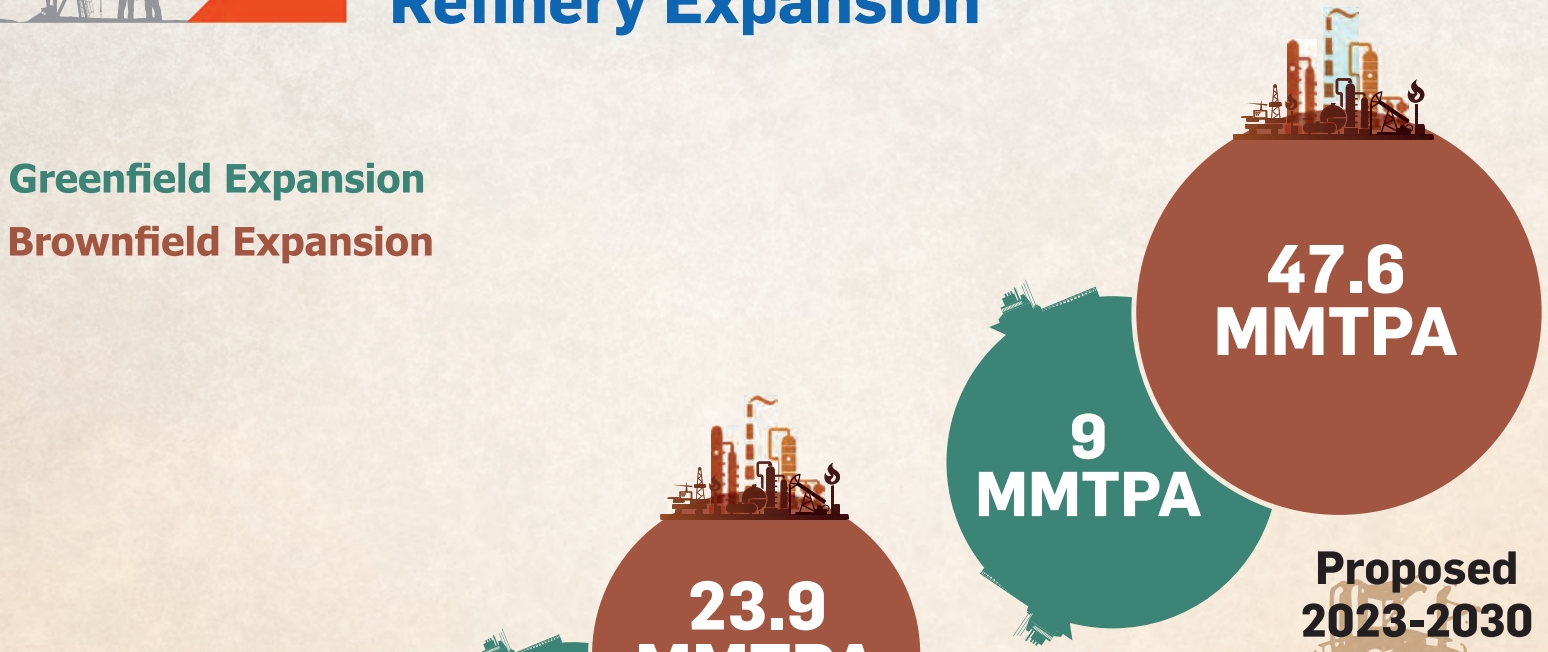


REFINERIES

Refinery Expansion

Greenfield Expansion

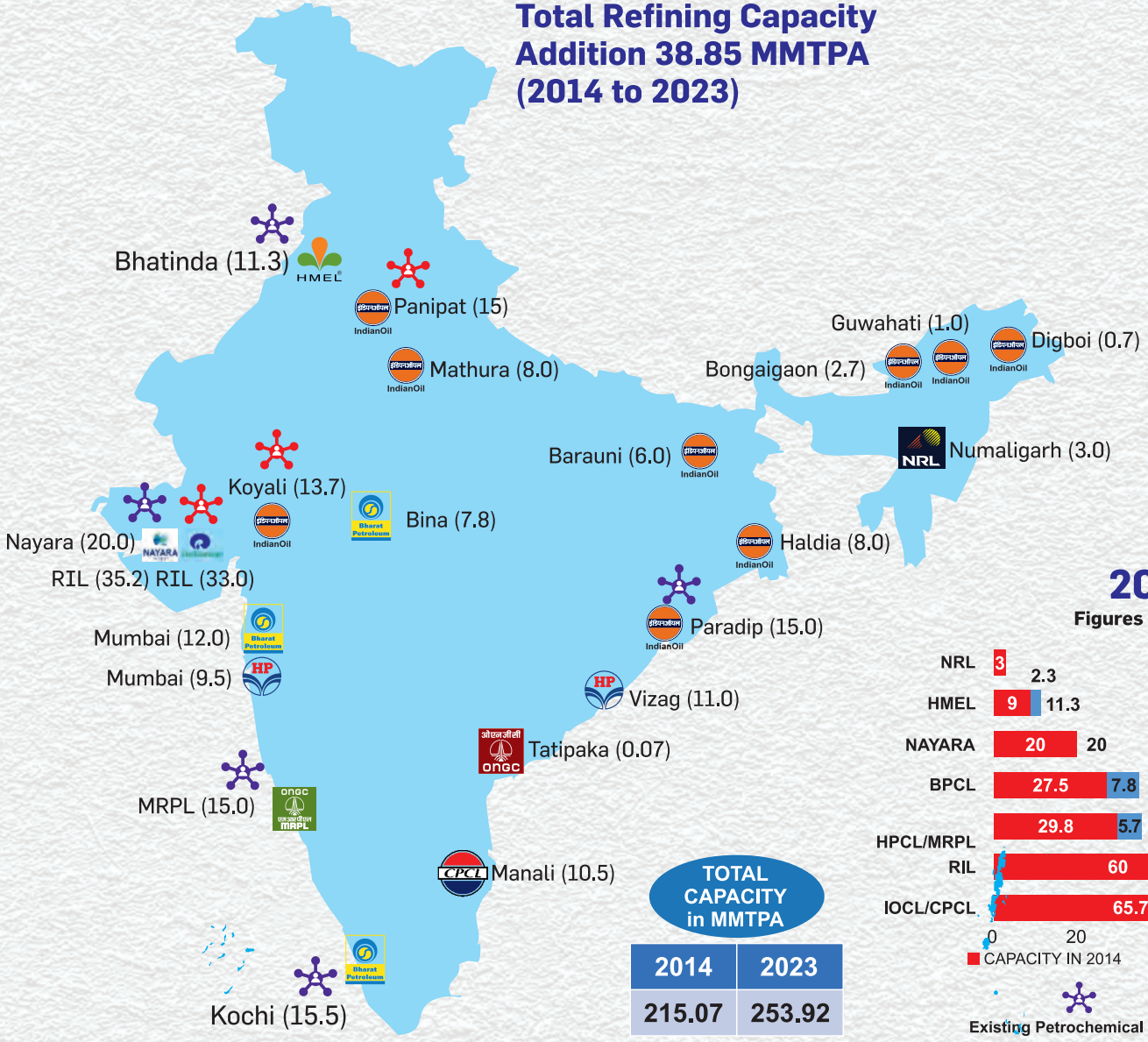
Brownfield Expansion



REFINERIES

Refineries in India

Total Refining Capacity Addition 38.85 MMTPA (2014 to 2023)

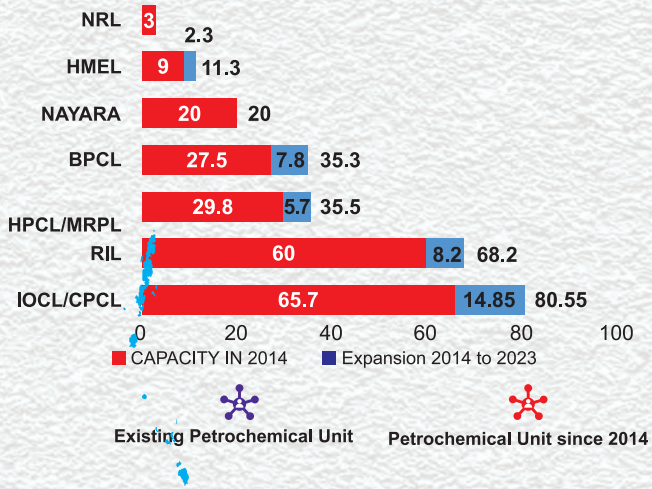




TOTAL CAPACITY in MMTPA	
2014	2023
215.07	253.92

2023

Figures in MMTPA



REFINERIES

4.2

Barmer Refinery, Rajasthan



Employment for 40,000 youth in Rajasthan

Renegotiated to save Rajasthan ₹40,000 crore

India's first ultra modern green field refinery with petrochemical complex

9 MMTPA green field Refinery

4.3

Paradip Refinery, Odisha

9 YEARS ACHIEVEMENT OF MoPNG

15 MMTPA
Capacity

₹34555 Cr
Investment



A state-of-the-art grass root refinery in Odisha.

Pioneering INDMAX technology implemented to maximize LPG production.

Petrochemical projects like Polypropylene and Mono Ethylene Glycol commissioned.

World scale PX- PTA projects are under construction at Paradip Refinery.

Plastic Park coming up at Paradip and Textile Park at Bhadrak using feedstock from Paradip Refinery.

REFINERIES

4.4 Cauvery Basin Refinery Project

9 YEARS ACHIEVEMENT OF MoPNG



Shri Narendra Modi, Hon'ble Prime Minister laid the Foundation Stone of 9 MMTPA Cauvery Basin Refinery at Nagapattinam on 17th February, 2021.



REFINERIES

4.5 Propylene Derivative Petrochemical Complex, Kochi Refinery

9 YEARS ACHIEVEMENT OF MoPNG

Benefits

- Complex would lead to savings of foreign exchange worth ₹4000 Crore per annum approx.
- Will benefit paint, cosmetic, ink, plasticizer and many more industries.
- 350 lakh man-hours of employment generated during project execution and more employment opportunities thereafter.

Salient Features

- First unit in the country for production of Acrylic Acid & Acrylates.
- Capital cost of ₹6000 Crore approx.
- The complex has an Acrylic Acid unit, Acrylates unit and Oxo-Alcohol unit of world class and capacity.
- Acrylic Acid unit is the largest single train unit in the world (1,60,000 MTPA).



4.6

Bina - Panki (Kanpur) Petroleum Product Pipeline

9 YEARS ACHIEVEMENT OF MoPNG

Pipeline Length : 356 KM
from Bina Refinery (MP) to POL Terminal at Panki, Kanpur (UP)

Pipeline Capacity : 3.45 MMTPA

Pipeline size : 18 inch

Products : HSD/MS/SKO

Project Start Date : 21.12.2018

Project Completion Date : 26.11.2021

Project Cost : ₹ 1524 crore

(₹ **1227 crore** in UP and ₹ **297 crore** in MP)



4.6

Bina - Panki (Kanpur) Petroleum Product Pipeline

9 YEARS ACHIEVEMENT OF MoPNG



Pipeline travels 283 KM in Uttar Pradesh covering districts of Lalitpur, Jhansi, Jalaun, Kanpur Dehat & Kanpur Nagar and 73 Km in Madhya Pradesh covering Sagarand Tikamgarh districts.

PNGRB

The Project has been completed and commissioned in November 2021, one month ahead of 3 years schedule of December 2021.



Pipeline has been embedded with high safety features encompassing 11 Sectionalising Valve station, 1 Pigging Station, Supervisory control and data acquisition(SCADA) and leak detection systems.



Pipeline will ensure product sufficiency in Eastern UP, Central UP, North Bihar and South Uttarakhand.

4.7

Petrochemical Complex at BPCL Bina Refinery in Madhya Pradesh

9 YEARS ACHIEVEMENT OF MoPNG



Hon'ble Prime Minister **Shri Narendra Modi**, laid the foundation stone of Petrochemical Complex and Refinery Expansion Project on 14.09.2023.

Project Cost of about **Rs. 49,000 crore.**

Capacity to produce about **1200 KTPA (Kilo-Tonnes Per Annum)** of ethylene and propylene.

Supplement sectors like textiles, packaging, pharma etc.

Step towards **'Aatmanirbhar Bharat'** & positioning India as a global leader in petrochemical Sector.

Post commissioning, the investment shall result in creating more than **1 lakh direct or indirect employment** opportunities.



REFINERIES


श्री नरेन्द्र मोदी
प्रधानमंत्री
के कर - कमलों द्वारा
14 सितंबर 2023 | बीपीसीएल ग्राउंड, बीपीसीएल बीना रिफाइनरी परि



The power and energy sectors are the biggest constituents of the infrastructure sector. If you ignore them, no development will happen.

-Sh. Narendra Modi, Hon'ble Prime Minister

05

BIO FUELS



5.1 National Policy on Biofuels (NPB)

9 YEARS ACHIEVEMENT OF MoPNG

NPB was issued in 2018 in supersession of NPB 2009 promulgated through Ministry of New Renewable Energy.



NPB was amended in 2022 with following major features

- Allowing more feedstocks for production of biofuels.
- Advancing the ethanol blending target of 20% in petrol to Ethanol Supply Year (ESY) 2025-26 from 2030.
- Promotion of the production of biofuels in the country, under the Make in India program, by units located in Special Economic Zones (SEZ)/ Export Oriented Units (EoUs).
- Grant of permission for export of biofuels in specific cases.

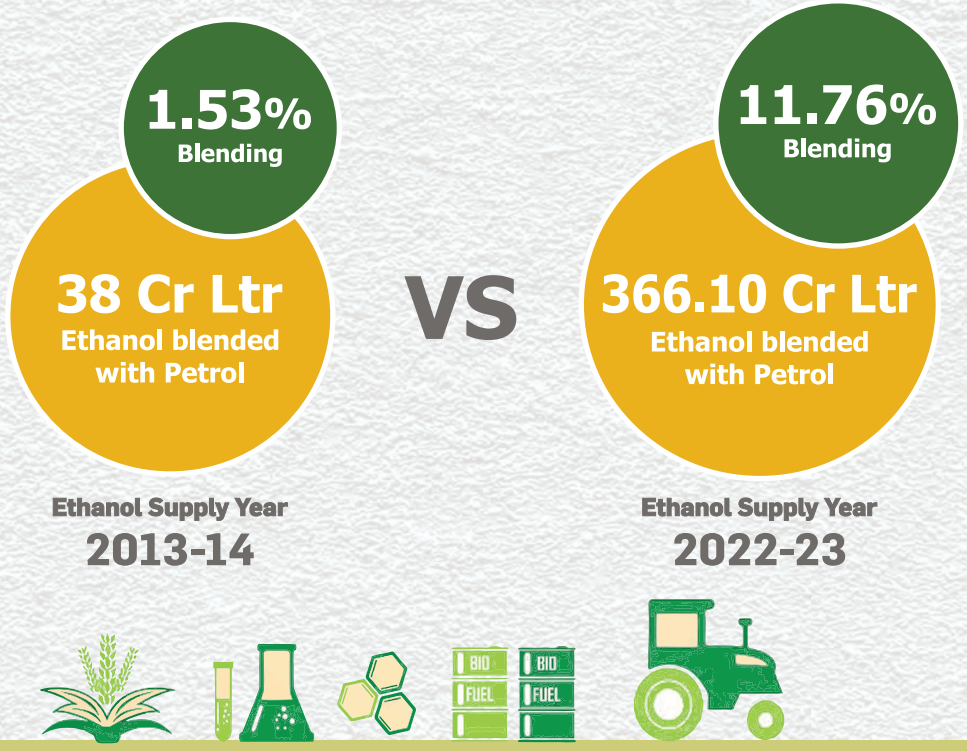
BIO FUELS

5.2

Ethanol Blended Petrol Programme

9 YEARS ACHIEVEMENT OF MoPNG

GOI is implementing EBP Programme to **Reduce oil import dependency, increase forex savings**, address the growing environmental concerns & give **boost to farmer's income.**



- E20 was rolled out at **84 retail outlets** in 11 States/UTs on 8th February 2023, ahead of its roll-out target of April 2023.
- The number of retail outlets retailing E20 is more than **4200** and will cover entire country by 2025.
- In the last 9 years, Public Sector OMCs have **paid over Rs. 1,20,000/- crores to distillers** for ethanol supply; ethanol production capacity increased by 2.5 times; carbon-dioxide (CO_2) emissions lowered by approx. 400 lakh tonnes; cumulative foreign exchange impact is estimated over **Rs. 73,000/- crore.**

BIO FUELS

5.3 Second Generation (2G) Ethanol & PM JI-VAN Yojana

9 YEARS ACHIEVEMENT OF MoPNG

2G Ethanol

To augment ethanol supplies, Government allowed ethanol procurement from agricultural waste materials like rice/ wheat straw, corn cobs, cotton stalk, etc. in December, 2014.

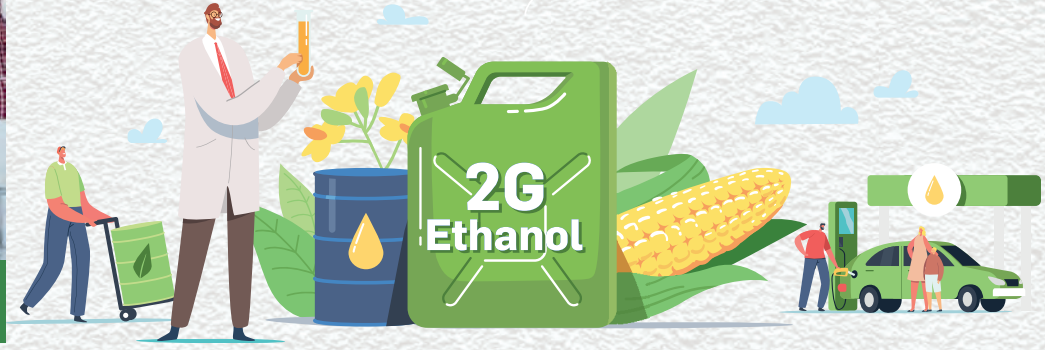
To provide initial thrust to create 2G Ethanol capacity in the country and attract investments in this sector Government approved "Pradhan Mantri JI-VAN Yojana" for providing financial assistance to integrated 2G bio-ethanol projects in March, 2019.

Oil PSUs investing around ₹8,000/- crore to establish approx.18 crore litre per annum 2G ethanol capacity.

- Provide remunerative income to farmers for their otherwise waste agriculture residues.
- Address concerns of environmental pollution caused by burning of biomass/ agriculture residues.
- Help in meeting the targets envisaged in Ethanol Blended Petrol (EBP) programme.
- Create employment opportunities.
- Contribute to Swachh Bharat Mission.
- Indigenization of Second Generation biomass to ethanol technologies.



World's 1st BS6 Hybrid, Ethanol Powered Car unveiled on 29th August 2023



BIO FUELS

5.3 Second Generation (2G) Ethanol & PM JI-VAN Yojana

9 YEARS ACHIEVEMENT OF MoPNG

- Since commencement of PM JI-VAN Yojana , financial assistance of more than Rs. 1200 crores has been approved for eight commercial and four demonstration 2G projects.



3G Ethanol

- 128 KLPD ethanol plant using Refinery Off Gases being set up at Panipat Refinery (Haryana) by IOCL with investment of around Rs. 754 crore. with expected commissioning 2023-24.
- This is world's first plant based on Refinery off gases to Ethanol (3G Ethanol).
- On commissioning, LanzaTech, USA (technology provider) will exclusively engage Indian Oil as its engineering partner globally for Basic Design and Engineering Package (BDEP) activity.

5.4 Bio-Diesel Blending Programme and Bio-ATF

9 YEARS ACHIEVEMENT OF MoPNG

Bio-Diesel Blending Programme

Guidelines for sale of Bio-Diesel for blending with high speed diesel for transportation purposes-2019 have been notified by this Ministry on 1st May, 2019.

During the Financial Year 2023-24, OMCs have procured approx **19.25 crore litres** of biodiesel for blending with diesel till 31st August, 2023.

Bio-ATF (SAF)



The first flight using 25% SAF blended ATF was operated between Dehradun and Delhi on 27th August, 2018.



The first commercial flight of India between Pune to Delhi using indigenously produced SAF blend aviation turbine fuel was successfully flown on 19th May, 2023.

BIO FUELS

5.5

Green Hydrogen

9 YEARS ACHIEVEMENT OF MoPNG

PSUs Refineries have taken various steps towards establishing Pilot and Commercial Green Hydrogen Plants of 32.77 KTPA by 2026.

GAIL is blending ~2% Hydrogen in M/s Avantika Gas Network in Indore.

OIL is blending ~2% Hydrogen with natural gas for captive usage at Jorhat.

Trial run of hydrogen fuel cell buses in routes like Vadodara-Kavedia and Jorhat-Kaziranga National Park.



India's first greenhydrogen fuel cell bus flagged-off at Kartavya Path, Delhi on 25th September, 2023.

5.6

Sustainable Alternative Towards Affordable Transportation (SATAT)

9 YEARS ACHIEVEMENT OF MoPNG

Launched in October 2018 aiming to establish an ecosystem for production) and utilization of Compressed Bio Gas (CBG).

Oil and Gas Marketing Companies are inviting Expression of Interest (EoI) to set up CBG plant and issuing Letters of Intent to procure CBG.

Promotes circularity in economy by extracting economic value from various waste/biomass resources in the form of CBG and bio-manure.

Policy guidelines for co-mingling of CBG with Natural Gas in City Gas Distribution (CGD) network have been issued for synchronization of CBG with CGD.

Synergises with GOBARdhan initiative, Swachh Bharat Mission, COP 21&26 commitments, AtmaNirbhar Bharat etc.

Around 50 CBG projects have been commissioned. Sale of CBG has been initiated from more than 120 Retail outlets. Supply of CBG initiated in 18 Geographical Areas of CGD network.



Verbio Plant



CBG Retail Outlet

5.7 The Global Biofuels Alliance (GBA)

9 YEARS ACHIEVEMENT OF MoPNG

Launched by Hon'ble Prime Minister Shri Narendra Modi along with the leaders of Singapore, Bangladesh, Italy, USA, Brazil, Argentina, Mauritius and UAE, on 9th September 2023, on the sidelines of the G20 Summit in New Delhi as the G20 Chair initiative.

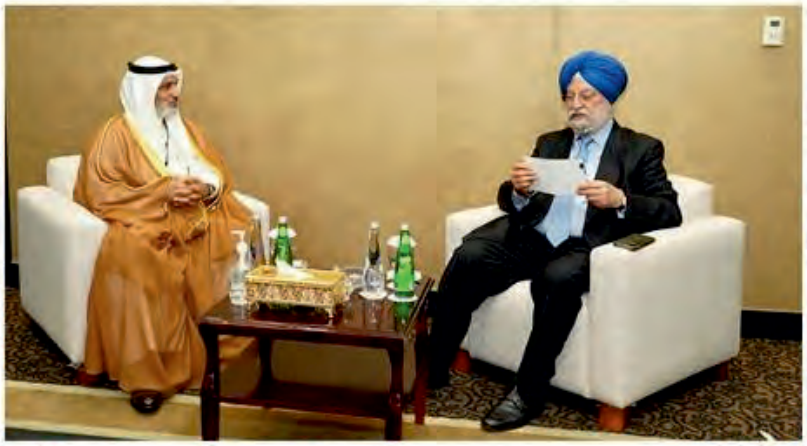
The GBA will support worldwide development and deployment of sustainable biofuels by offering capacity-building exercises across the value chain, technical support for national programs and promoting policy lessons-sharing.

The GBA will help accelerate India's existing biofuels programs such as PM-JIVANYojna, SATAT, and GOBARdhan scheme, thereby contributing to increased farmers' income, creating jobs and overall development of the Indian ecosystem.

The alliance will focus on collaboration and will provide additional opportunities to Indian industries in the form of exporting technology and exporting equipment.



Launch of Global Biofuels Alliance (GBA) on 9th September 2023, on the sidelines of the G20 Summit in New Delhi.











06

INTERNATIONAL COOPERATION



Sakhalin-I, Russia

6.1

Expanding Hydrocarbon foot prints through overseas acquisitions

9 YEARS ACHIEVEMENT OF MoPNG

A major boost to India's Energy Security



Feb 2018

First-of-its-kind oil sector agreement between Abu Dhabi and India. Indian consortium acquired 10% stake in Abu Dhabi's Lower Zakum offshore oil field.

April 2018

India acquired 17% stake in Mukhaizna oil fields in OMAN, the second major acquisition of an oil asset in the neighbouring gulf.

2016

OVL acquired 26% stake in Vankorneft in Russia.

Consortium of Indian PSUs comprising OIL, IOCL and BPRL acquired 23.9% stake in Vankorneft and 29.9% stake in Taas-Yurakh in Russia.

6.1 Expanding Hydrocarbon foot prints through overseas acquisitions

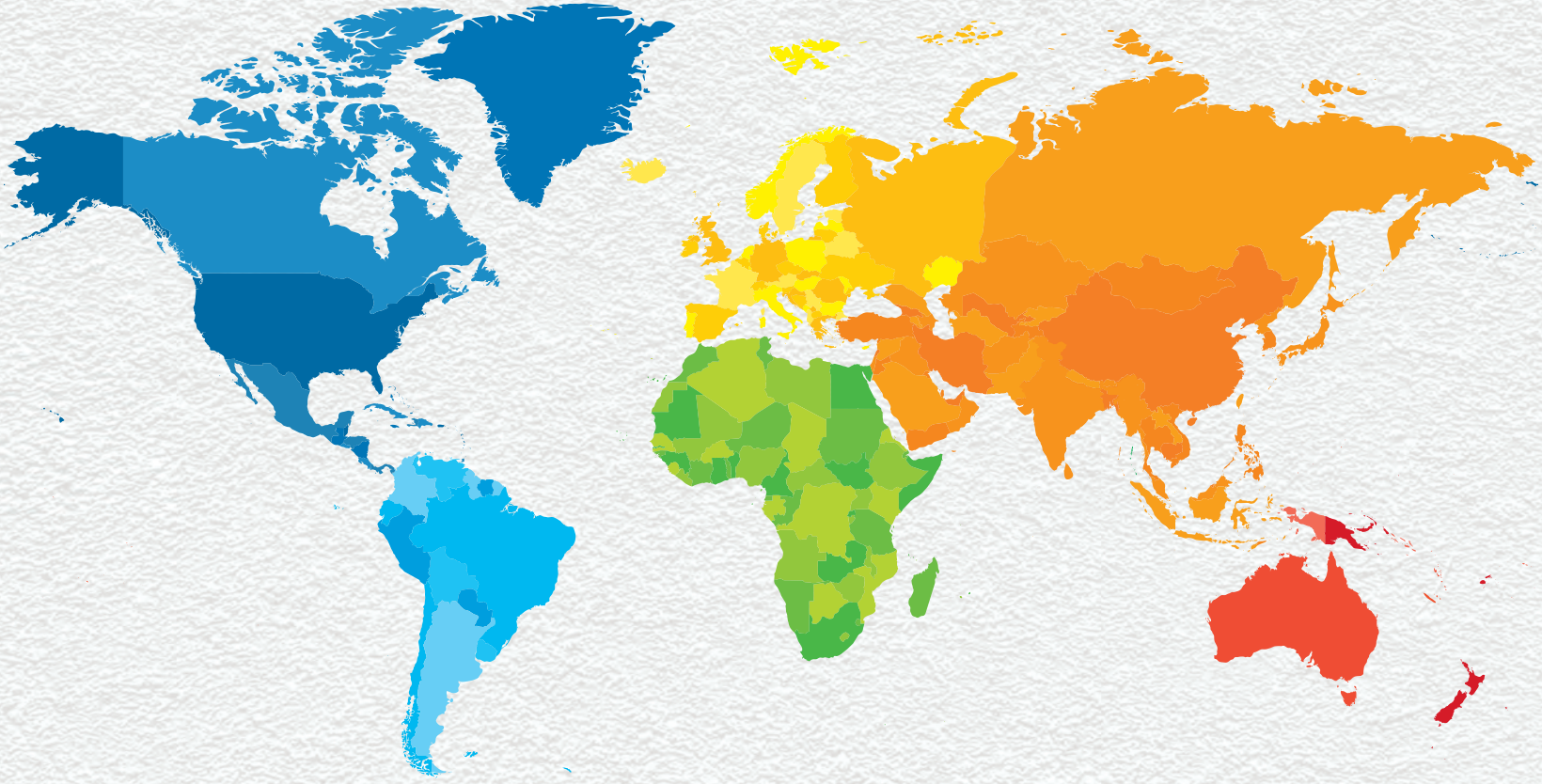
9 YEARS ACHIEVEMENT OF MoPNG

Acquisition of Overseas Assets

As on 31st March 2023, Indian Oil and Gas PSUs have 48 overseas assets in 22 countries (which are periodically monitored) with an investment of USD 38 billion, yielding almost 21.8 MMT of equity oil and gas which is 34.2% of India's domestic production.

During the last 5 years Indian companies have acquired assets in UAE, Oman and Russia.

Indian oil & gas companies are exploring to invest in more oil & gas projects abroad with entitlement of equity oil & gas.



6.2

LNG Contracts diversified

9 YEARS ACHIEVEMENT OF MoPNG



- Long-term contracts from **4 new sources– Australia, USA, Russia and the UAE.**
- Historic milestone in **India-US Strategic Energy Relations** achieved with the **arrival of the 1st chartered LNG vessel carrying US LNG** under long-term contract at Dabhol on March 30, 2018.
- Renegotiated long-term LNG contracts linked to diverse oil and gas indices to ensure **secure supply to India at stable prices.**

6.3 Neighbourhood First



In line with Government's diplomatic approach of "Neighborhood First", the Government of India built Southeast Asia's first cross-border petroleum products pipeline between Motihari in India and Amlekhgunj in Nepal. The Pipeline was commissioned in 2019.



The Government of India has constructed the India Bangladesh Friendship Pipeline-another cross-border product pipeline between Siliguri in India and Parbatipur in Bangladesh for supplying 1 MMTPA of diesel to Bangladesh Petroleum Corporation for 20 years. Prime Minister Shri Narendra Modi and Prime Minister of Bangladesh, Ms. Sheikh Hasina jointly in inaugurated the pipeline (in virtual mode) on 18th March, 2023.



India has been supplying 100% Petroleum products requirements of Nepal And Bhutan.



6.4

India Energy Week 2023 (IEW)

9 YEARS ACHIEVEMENT OF MoPNG

1. It was the first iteration of Ministry of Petroleum & Natural Gas' Flagship Global Event and a major energy event under India's G20 Presidency.

2. Held from 6th to 8th February, 2023 in Bengaluru at the Bangalore International Exhibition Centre.

3. The event was inaugurated by the Hon'ble Prime Minister Shri Narendra Modi , who launched E20 fuel at 84 Retail Outlets of Oil Marketing Companies in 11 States/UTs and Flagged off Green Mobility Rally that witnessed participation of 57 vehicles running on sustainable green energy sources viz., E20, E85, Flex Fuel, Hydrogen, Electric etc.

4. Participation from more than 50 countries comprising of over :
   - 40 Ministerial and Deputy Ministerial rank,
   - 500 international speakers;
   - 30,000 energy professionals
   - 8000+delegates
   - 700 exhibitors.

5. Leaders from the traditional and non-traditional energy industry, governments, and academia came together to discuss challenges and opportunities that a responsible energy transition presents.


IEW
INDIA ENERGY
WEEK 2023
UNDER THE PATRONAGE OF
सत्यमेव जयते
MINISTRY OF PETROLEUM
AND NATURAL GAS


सत्यमेव जयते


सत्यमेव जयते





6.5 Strategic Petroleum Reserve

9 YEARS ACHIEVEMENT OF MoPNG

Objective - To ensure energy security of the country by serving as a cushion during any external supply disruptions

Hon'ble PM in February 2019 dedicated 5.33 MMT of stratagic crude oil storage in SPR-Phase-I at following locations:

i) **Vishakhapatnam - 1.33 MMT**
ii) **Mangalore - 1.5 MMT**
iii) **Padur - 2.5 MMT**

Another **6.5 MMT** of strategic crude reserves is planned in **SPR Phase-II** at :

I) **Chandikhole, Odisha (4 MMT);**
ii) **Padur, Karnataka (2.5 MMT)**

ISPRL is now permitted to lease upto 30% of its crude reserves and trade up to 20% of crude oil capacity under Phase I of SPR.

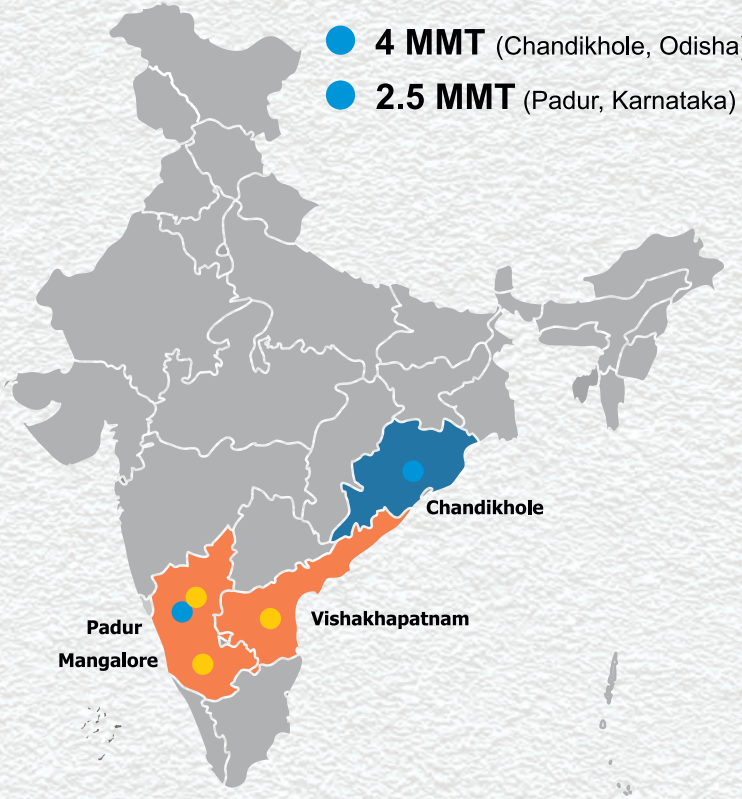
In November 2021, India released 5 million barrels of crude oil from its Strategic Petroleum Reserves in consultation and parallely with other major global energy consumers to cool high oil prices.

Existing Crude Oil Storage Capacity

- **1.33 MMT** (Vishakhapatnam, AP)
- **1.5 MMT** (Mangalore, Karnataka)
- **2.5 MMT** (Padur, Karnataka)

Upcoming Crude Oil Storage Capacity under SPR-II

- **4 MMT** (Chandikhole, Odisha)
- **2.5 MMT** (Padur, Karnataka)



07

INFRASTRUCTURE DEVELOPMENT



7.1

PM GatiShakti

9 YEARS ACHIEVEMENT OF MoPNG

- Launched by Hon'ble Prime Minister on 13th October, 2021.

Objective : To holistically integrate all Multi Modal Connectivity projects and address missing gaps.
Impact : Seamless movement of people, goods and services in the most efficient manner.

Mapping of MoPNG Assets on National Master Plan

- **9** layers and **23** sublayers
- More than **1 lakh assets**
- Approx. **86,000 km** pipelines

Enabling 'Whole of Government Approach' in project planning, execution and monitoring



PM GatiShakti NMP Portal



MoPNG assets on PM GatiShakti NMP

4 Network Planning Group Projects recommended worth **INR 9226 Crore.**

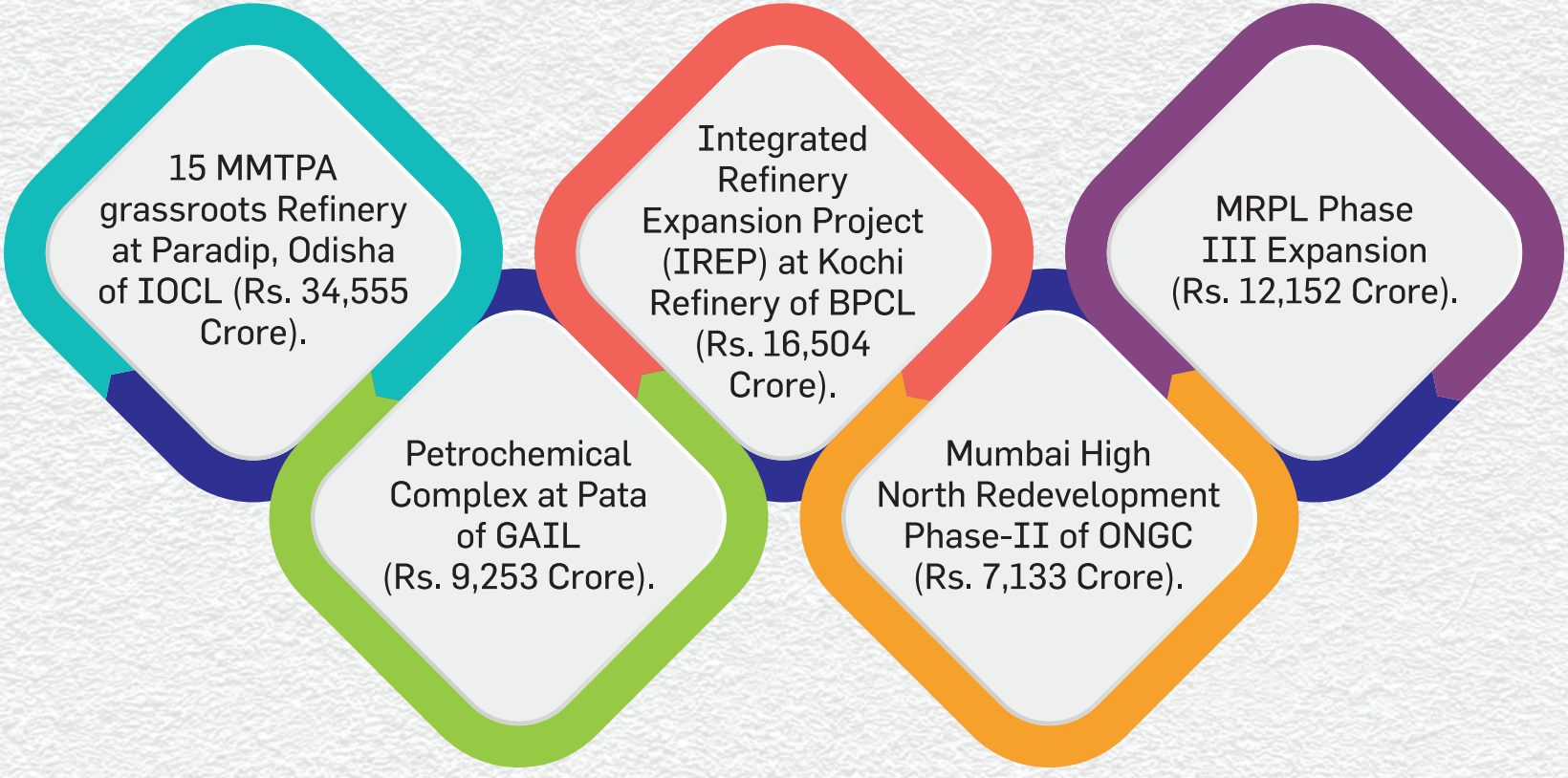
4 High Impact Projects approved worth **INR 26,137 Crore.**

7.1 Project Monitoring in Oil & Gas Sector

9 YEARS ACHIEVEMENT OF MoPNG

Projects

- As of July 2023, there are 367* number of projects under implementation of the Oil & Gas CPSEs with total anticipated cost of Rs. 5, 85,031 crore.
- During the last 9 years from June 2014 to March 2023, Oil & Gas CPSEs has completed 272^ projects with an investment of around Rs 3.78 lakh crore.
- **Major projects completed in last 9 years:**



*Project costing Rs 5 crore & above / ^ Project costing Rs 100 crore & above

7.2

Pariyojana Portal

Ministry has created a state-of-the art Pariyojana Portal for monitoring of infrastructure projects

- Completely Automated and Digitalised project monitoring.
- Equipped with features including Voice Search, Map Search etc.
- Provides flexibility to generate customized analytical reports.



7.3 Internal & Extra Budget Resources (IEBR)

IEBR

Driving Hydrocarbon Infrastructure – Upstream investments, Pipelines, CGD, LNG terminals etc. spent as IEBR around Rs. 9.2 lakh crore during 2014-15 to 2022-23.

IEBR has substantially increased from Rs.69,829 crore in the year 2014-15 to Rs. 1,19,256 crore in the year 2022-23.



7.4

Government e-Marketplace

9 YEARS ACHIEVEMENT OF MoPNG



Launched on 9th August, 2016 by the Ministry of Commerce and Industry.

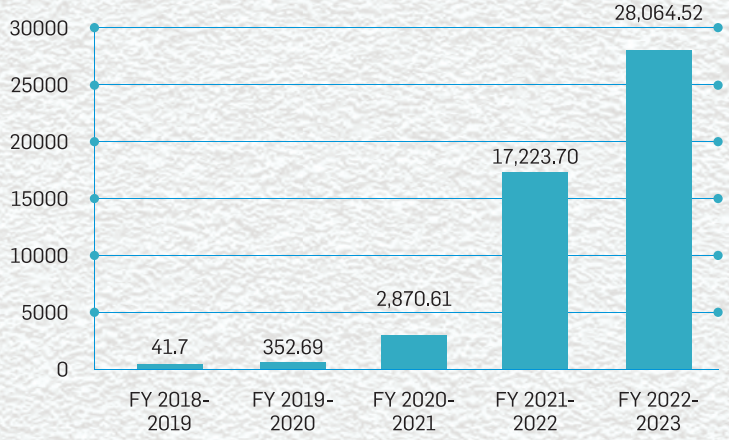
Objective is to create an open and transparent procurement platform for government buyers.

MoP&NG has consistently displayed exemplary commitment towards enhancing credibility of public procurement procedures by relying on GeM.

MoP&NG was chosen as winner in "Top 3 Ministries w.r.t. GeM GMV in FY 2022-23" with a total procurement of ₹28,064 Cr.



Procurement through GeM (in Rs. Cr.)



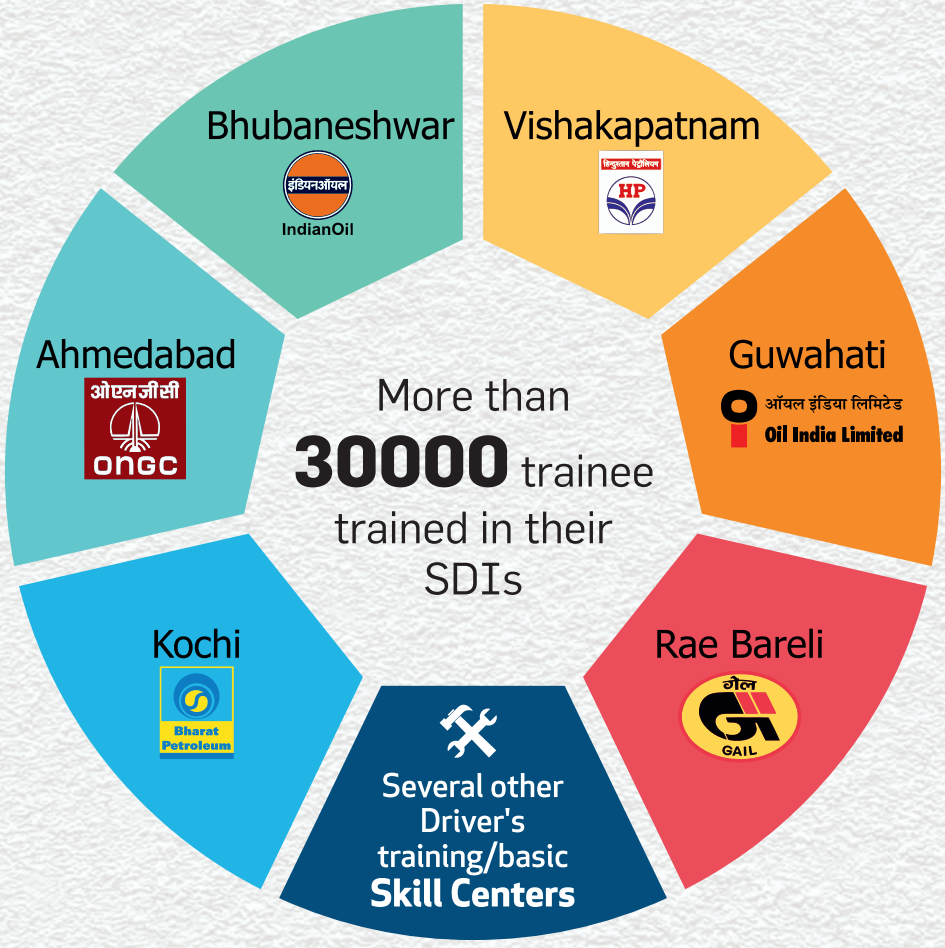


08

RESPONSIBLE IMPRESSIONS

8.1 Skill Development Initiatives

9 YEARS ACHIEVEMENT OF MoPNG



- Qualification Packs (QPs) of 36 job roles have been developed and approved under National Skill Qualification Framework (NSQF).
- Apprenticeship curriculum for 15-Optional Trades have been developed by HSSC Agreement signed between HSSC & NSDC with an aim to skill and certify 19.27 lakh personnel in 10-years i.e., by 2028.

8.2 Start Up: Encouraging Entrepreneurship

9 YEARS ACHIEVEMENT OF MoPNG

Fostering & Promoting an Ecosystem conducive to Entrepreneurial growth.

"STARTUP Sangam" was organized under the "Start Up India" initiative to encourage innovation on 25th October, 2017.



₹405 Crores

Oil & Gas PSUs have set up a Start Up fund aggregating to ₹405 Crores.

At present a total no. of 232 Startups are being funded by oil and gas PSUs with disbursed fund value of approximatly Rs. 208 Cr.

START UP

Inspired by Prime Minister's vision to develop efficient & low cost Solar Chulha, ONGC through its Start-Up funds provided mentor support in improving design to the prototypes of designs submitted by IIT Bombay, NIIT Kurukshetra, ISRO & Cooka.

RESPONSIBLE IMPRESSIONS

8.3

Apprenticeship in Oil & Gas PSUs

9 YEARS ACHIEVEMENT OF MoPNG

Oil & Gas PSUs have achieved the target of **10%** apprenticeship in December 2017

9656
as on June' 2023

1291
FY 2013-14



8.4 Make in India & AtmaNirbhar Bharat Abhiyan (Self-Reliant India)

9 YEARS ACHIEVEMENT OF MoPNG

This Ministry has aligned the public procurement in Oil & Gas Sector in line with DPIIT's Public Procurement (Preference to Make in India) Order, 2017.

Lakshya Bharat Portal was launched on 15th September, 2021 by Hon'ble Minister, P&NG.

This portal is accessible to all stakeholders, i.e. the Government of India, all Oil and Gas PSUs, the manufacturers/ traders.

Oil and Gas PSUs regularly upload details of various items procured by them including the future demand on this portal.

The portal will help in the indigenization of global technologies & manufacturing processes by offering the foreign manufacturers crucial information regarding the business potential for suppliers to the Indian hydrocarbon sector.

Lakshya Bharat लक्ष्य भारत



RESPONSIBLE IMPRESSIONS

8.5

Azadi Ka Amrit Mahotsav (AKAM)

9 YEARS ACHIEVEMENT OF MoPNG

Azadi Ka Amrit Mahotsav

Till date, 257 events/activities have been successfully conducted by OPSUs under AKAM.

These activities majorly revolve around:

Engaging students with study visits to Refinery, LPG Plant and other Oil Installations.

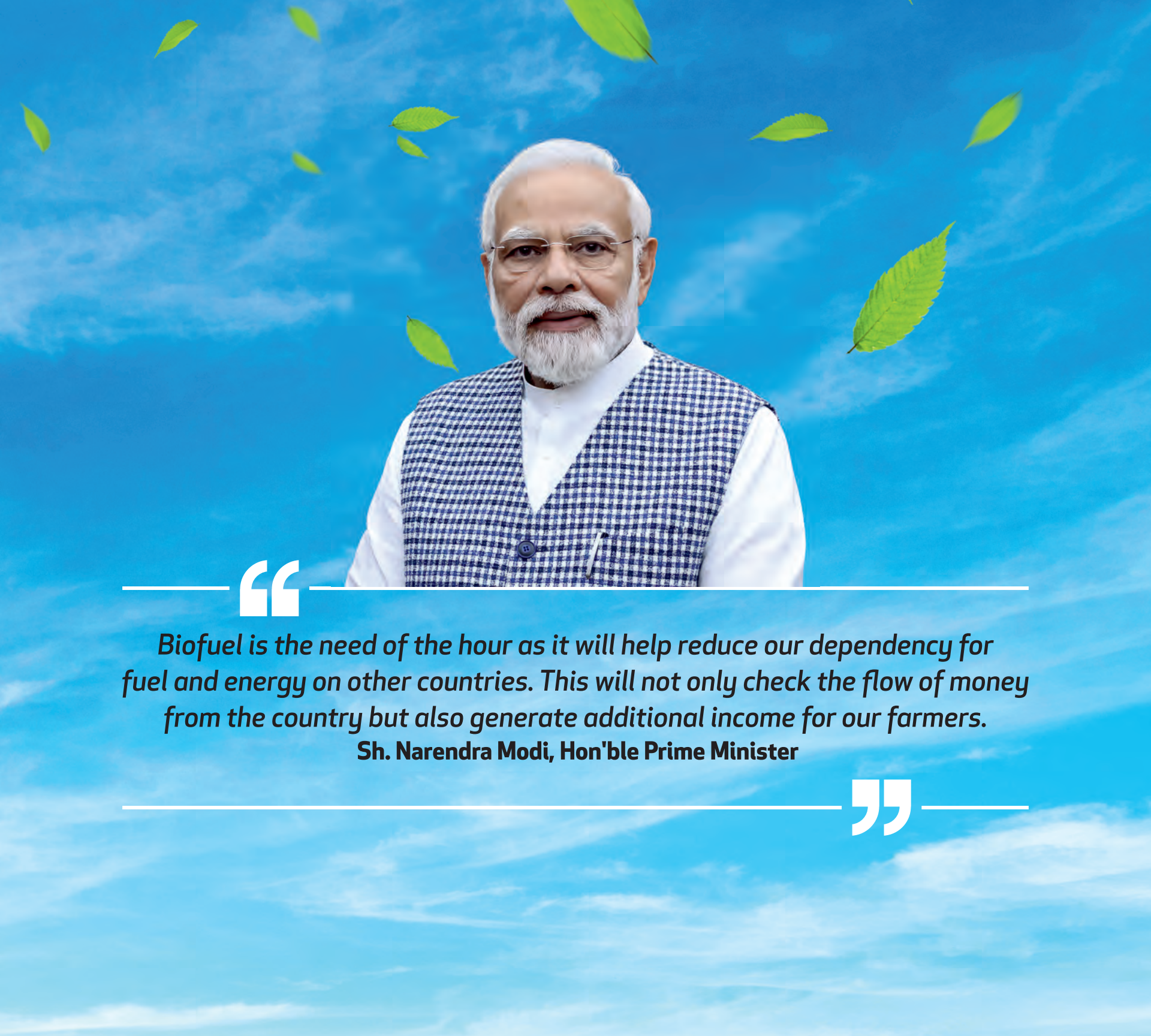
Awareness programme on Ujjwala, LPG Safety, PNG, CNG, CGD.

Exhibitions on Bio-fuel, SATAT etc.









Biofuel is the need of the hour as it will help reduce our dependency for fuel and energy on other countries. This will not only check the flow of money from the country but also generate additional income for our farmers.

Sh. Narendra Modi, Hon'ble Prime Minister

8.6

Dil without Bill- Flagship CSR Project by HPCL

9 YEARS ACHIEVEMENT OF MoPNG

Purpose and overview :
This Health care project provides financial support for conducting heart surgeries and treatment of other cardiac ailments of patients at Sri Sathya Sai Heart Hospital in Ahmedabad and Rajkot, Gujarat.

Project Start Date/Status :
Started in April 2011, the project is on going and MoU signed every year.

Target Audience :
socio -economically weaker sections, particularly children.

Present Impact :
500 beneficiaries for FY 2023 - 24.

Financial Implication :
Rs.2688.0 Lakh from FY 2011 - 12 to FY 2022 - 23.

Location of project:
Rajkot and Ahmedabad in Gujarat with beneficiaries from across India.







Nanhi Kali - Flagship CSR Project by HPCL

Purpose and overview :
This education project aims to educate and empower girls from weaker social, economic and most vulnerable sections who are often first - generation learners, so that she can realize her potential and role in development of society at an early age.

Project Start Date/ Status :
Started in April 2005, the project is on going.

Target Audience :
Girl child learners from educationally & economically less developed communities.

Present Impact :
12,500 underprivileged tribal girls in FY 2023-24.

Financial Implication :
Rs.4932.0 Lakh from FY 2008 - 09 to FY 2022 - 23.

Location of project:
for FY 2023-24 , Visakhapatnam, Alluri Seetharama Raju and Anakapalli Districts of Andhra Pradesh and Angul District of Odisha.







8.8

IndianOil Vidushi Super 30- Flagship CSR Project by IOCL

9 YEARS ACHIEVEMENT OF MoPNG

Purpose and overview :
This education project aims to provide girl children from lower income backgrounds with specialized coaching, enabling them to excel in exams like JEE (Mains) & JEE (Advanced).

Project Start Date/ Status :
Started in March 2018, the project is ongoing.

Target Audience :
600 Girl children from lower income backgrounds.



Present Impact :
178 girls have joined IITs / NITs and 206 girls have joined other Govt. colleges.

Financial Implication :
With a project cost of Rs. 3258.21 Lakh, Rs.1245.4 Lakh spent till Aug 2023.

Location of project:
PAN India.



8.9 IndianOil Aarogyam- Flagship CSR Project by IOCL

9 YEARS ACHIEVEMENT OF MoPNG

Purpose and overview :
This project aims to provide healthcare to the doorstep of populations, particularly rural, vulnerable and under-served areas.

Project Start Date/ Status :
Started in FY 2018-19, the project is ongoing.

Target Audience :
People living in remote, difficult, under-served and unreached areas. Mobile Medical Units (MMU), each with medical team provide healthcare facility.

Present Impact :
More than 11 Lakh beneficiaries.

Financial Implication :
Rs. 1577.83 lakh.

Location of project:
Bongaigaon (Assam), Mathura (Uttar Pradesh), Paradip (Odisha).







8.10

Kedarnath Town and Surrounding Areas - Flagship CSR Project by IOCL

9 YEARS ACHIEVEMENT OF MoPNG

Purpose and overview:
This project aims to provide Re-development of Sangam Ghat at Kedarnath Dham along with First-Aid Tourist Facilitation Centre & related infrastructure along Mandakini Ghats.

Project Start Date/Status:
Started in February 2021, the project is ongoing.

Target Audience:
Tourists & pilgrims.

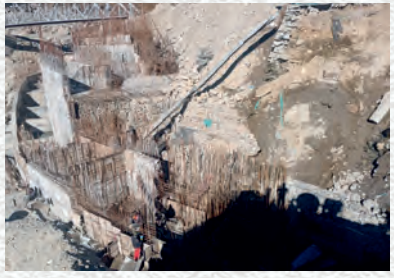
Present Impact:
6000 pilgrims every day during peak season months of April-May.

Financial Implication:
With a project cost of Rs.2796 Lakh, Rs.1734 Lakh spent till Aug 2023.

Location of project:
Rudraprayag, Uttarakhand.







8.11 ONGC Multi-Speciality Hospital, (Swargadew-Siu–Ka–Pha Hospital) - Flagship CSR Project by ONGC

Project Start Date/Status :
Started in 2019, the project is ongoing.

Target Audience :
To cater population of approx 1 crore, majority of whom are from humble background.

Purpose and overview :
This health care project aims to provide 362 bed Multi-specialty Hospital.



Present Impact :
As on August'23, more than 1,00,000 OPD patients, 3200 surgeries and 21,000 dialysis conducted.

Health Schemes supported :
Ayushman Bharat and Atal Amrit Abhiyan.

Financial Implication :
Rs. 400 crore spent out of sanctioned budget of Rs. 483.19 crore.

Location of project:
Sivasagar district of Assam.

8.12

Support for conversion of diesel / petrol engine boats to CNG boats - Flagship CSR Project by GAIL India Ltd

Project Start Date/Status :
Started in February 2021, the project is ongoing.

Purpose and overview :
The project aims at providing sustainable, environmentally-friendly and efficient facilities through 1st floating CNG station for utilizing Natural Gas as boat engine fuel in place of diesel and petrol.



Target Audience :
More than 15 lakhs population.

Present Impact :
To make river Ganga pollution free and to provide alternate energy & environment efficient fuel for running the boats with increase in the income of boatmen.

Location of project:
Varanasi, Uttar Pradesh.

Financial Implication :
With sanctioned budget of Rs. 2974.72 lakh , Rs. 1489.72 lakh have been spent.





My mission is to work for the development of my country and my people.

This gives me great energy, especially because there is a long way to go for us.

Sh. Narendra Modi
Hon'ble Prime Minister



For more information on Ministry of Petroleum & Natural Gas, Please Contact:

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